

# Videocard Benchmarks

Over 1,000,000 Video Cards Benchmarked

## Video Card List

Below is an alphabetical list of all Video Card types that appear in the charts. Clicking on a specific Video Card will take you to the chart it appears in and will highlight it for you.



VIDEO CARD



High End



High Mid Range



Low Mid Range



Low End



Best Value



Common



Market Share



Compare<sup>0</sup>



Video Card Mega List

Search Model



GPU Compute Video Card Chart



DirectX 9 Video Card Chart



DirectX 10 Video Card Chart



DirectX 11 Video Card Chart



DirectX 12 Video Card Chart



Power Performance Video Card Chart



2D Graphics Video Card List

Single Video Card

Find Videocard

| Videocard Name                                        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
|-------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">FireMV 2200 PCI</a>                       | 1                                    | 2616                   | NA                                 | NA                        |
| <a href="#">Intel 82852/82855 GM/GME Controller</a>   | 1                                    | 2613                   | NA                                 | NA                        |
| <a href="#">Intel Extreme Controller</a>              | 1                                    | 2604                   | NA                                 | NA                        |
| <a href="#">Mobile Intel 915GM/GMS/910GML Express</a> | 1                                    | 2608                   | NA                                 | NA                        |
| <a href="#">Mobile Intel 945 Express</a>              | 1                                    | 2607                   | NA                                 | NA                        |
| <a href="#">Quadro2 Pro</a>                           | 1                                    | 2615                   | NA                                 | NA                        |
| <a href="#">RADEON IGP 34xM</a>                       | 1                                    | 2610                   | NA                                 | NA                        |
| <a href="#">Rage 128 Pro</a>                          | 1                                    | 2612                   | NA                                 | NA                        |
| <a href="#">RAGE 128 PRO AGP 4X TMDS</a>              | 1                                    | 2614                   | NA                                 | NA                        |
| <a href="#">S3 ProSavageDDR</a>                       | 1                                    | 2611                   | NA                                 | NA                        |
| <a href="#">S3 SuperSavage/IXC 1014</a>               | 1                                    | 2605                   | NA                                 | NA                        |
| <a href="#">VIA Chrome9 HCM IGP</a>                   | 1                                    | 2609                   | NA                                 | NA                        |
| <a href="#">VisionTek Radeon 7000</a>                 | 1                                    | 2606                   | NA                                 | NA                        |
| <a href="#">Dell 8100</a>                             | 2                                    | 2600                   | <a href="#">0.00</a>               | <a href="#">\$999.11*</a> |
| <a href="#">GeForce2 MX</a>                           | 2                                    | 2584                   | NA                                 | NA                        |
| <a href="#">GeForce2 MX with TV Out</a>               | 2                                    | 2593                   | NA                                 | NA                        |
| <a href="#">GeForce3 Ti 500</a>                       | 2                                    | 2595                   | NA                                 | NA                        |
| <a href="#">Intel 82845G Controller</a>               | 2                                    | 2602                   | NA                                 | NA                        |
| <a href="#">Intel 82845G/GL Controller</a>            | 2                                    | 2589                   | NA                                 | NA                        |

1 z 82

02.02.2025, 18:5

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

| Videocard Name                                           | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|----------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Intel 946GZ Express</a>                      | 2                                             | 2592                         | NA                                          | NA                        |
| <a href="#">Intel GMA 3150 Express</a>                   | 2                                             | 2596                         | NA                                          | NA                        |
| <a href="#">Intel Media Accelerator 3150</a>             | 2                                             | 2580                         | NA                                          | NA                        |
| <a href="#">MOBILITY RADEON 9100 IGP</a>                 | 2                                             | 2579                         | NA                                          | NA                        |
| <a href="#">Quadro NVS 280 SD</a>                        | 2                                             | 2598                         | NA                                          | NA                        |
| <a href="#">Radeon 7000 / Radeon VE</a>                  | 2                                             | 2586                         | NA                                          | NA                        |
| <a href="#">RADEON 7200</a>                              | 2                                             | 2582                         | <a href="#">0.00</a>                        | <a href="#">\$599.99*</a> |
| <a href="#">RADEON 9200 LE Family</a>                    | 2                                             | 2590                         | NA                                          | NA                        |
| <a href="#">RADEON 9200 PRO Family</a>                   | 2                                             | 2583                         | NA                                          | NA                        |
| <a href="#">RADEON 9200 SE</a>                           | 2                                             | 2594                         | NA                                          | NA                        |
| <a href="#">RADEON 9250</a>                              | 2                                             | 2591                         | <a href="#">0.01</a>                        | <a href="#">\$194.00*</a> |
| <a href="#">Radeon IGP 340M</a>                          | 2                                             | 2597                         | NA                                          | NA                        |
| <a href="#">RADEON IGP 345M</a>                          | 2                                             | 2585                         | NA                                          | NA                        |
| <a href="#">Radeon VE</a>                                | 2                                             | 2603                         | NA                                          | NA                        |
| <a href="#">VIA Chrome9 HC IGP Prerelease WDDM 1.1</a>   | 2                                             | 2601                         | NA                                          | NA                        |
| <a href="#">VIA Chrome9 HC IGP WDDM</a>                  | 2                                             | 2599                         | NA                                          | NA                        |
| <a href="#">VIA Chrome9 HC3 IGP</a>                      | 2                                             | 2587                         | NA                                          | NA                        |
| <a href="#">ABIT Siluro T400</a>                         | 3                                             | 2549                         | NA                                          | NA                        |
| <a href="#">AMIGAMERLIN 3.1-R1 For Voodoo 4 4500 PCI</a> | 3                                             | 2574                         | NA                                          | NA                        |
| <a href="#">GeForce 6200A</a>                            | 3                                             | 2557                         | <a href="#">0.07</a>                        | <a href="#">\$54.99*</a>  |
| <a href="#">GeForce2 GTS/GeForce2 Pro</a>                | 3                                             | 2546                         | NA                                          | NA                        |
| <a href="#">GeForce2 MX 100/200</a>                      | 3                                             | 2570                         | NA                                          | NA                        |
| <a href="#">GeForce2 MX/MX 400</a>                       | 3                                             | 2548                         | NA                                          | NA                        |
| <a href="#">GeForce4 420 Go</a>                          | 3                                             | 2567                         | NA                                          | NA                        |
| <a href="#">GeForce4 4200 Go</a>                         | 3                                             | 2547                         | NA                                          | NA                        |
| <a href="#">GeForce4 440 Go</a>                          | 3                                             | 2554                         | NA                                          | NA                        |
| <a href="#">Intel 82915G/915GV/910GL</a>                 | 3                                             | 2555                         | NA                                          | NA                        |
| <a href="#">Intel 82915G/GV/910GL Express</a>            | 3                                             | 2576                         | NA                                          | NA                        |
| <a href="#">Intel 865 Embedded Controller</a>            | 3                                             | 2556                         | NA                                          | NA                        |
| Videocard Name                                           | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Intel 946GZ Embedded Chipset</a>             | 3                                             | 2571                         | NA                                          | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                          |   |      |                      |                           |
|------------------------------------------|---|------|----------------------|---------------------------|
| <u>MOBILITY RADEON 7500</u>              | 3 | 2559 | NA                   | NA                        |
| <u>MOBILITY RADEON 9000</u>              | 3 | 2569 | NA                   | NA                        |
| <u>MOBILITY RADEON 9200</u>              | 3 | 2578 | NA                   | NA                        |
| <u>RADEON 7000 / RADEON VE Family</u>    | 3 | 2551 | NA                   | NA                        |
| <u>RADEON 7500</u>                       | 3 | 2572 | <a href="#">0.02</a> | <a href="#">\$177.25*</a> |
| <u>RADEON 9000 Family</u>                | 3 | 2561 | NA                   | NA                        |
| <u>RADEON 9200</u>                       | 3 | 2558 | <a href="#">0.02</a> | <a href="#">\$153.63*</a> |
| <u>RADEON IGP 320</u>                    | 3 | 2553 | NA                   | NA                        |
| <u>Radeon IGP 320M</u>                   | 3 | 2560 | NA                   | NA                        |
| <u>Rage Fury Pro/Xpert 2000 Pro</u>      | 3 | 2575 | NA                   | NA                        |
| <u>RIVA TNT2 Model 64/Model 64 Pro</u>   | 3 | 2552 | NA                   | NA                        |
| <u>RIVA TNT2/TNT2 Pro</u>                | 3 | 2564 | NA                   | NA                        |
| <u>S3 Inc. Savage4</u>                   | 3 | 2573 | NA                   | NA                        |
| <u>Vanta/Vanta LT</u>                    | 3 | 2577 | NA                   | NA                        |
| <u>VIA Chrome9 HC IGP Family</u>         | 3 | 2550 | NA                   | NA                        |
| <u>VIA Chrome9 HC IGP Family WDDM</u>    | 3 | 2562 | NA                   | NA                        |
| <u>VIA Chrome9 HC IGP WDDM 1.1</u>       | 3 | 2566 | NA                   | NA                        |
| <u>VIA/S3G DeltaChrome IGP</u>           | 3 | 2568 | NA                   | NA                        |
| <u>ALL-IN-WONDER 9000</u>                | 4 | 2516 | NA                   | NA                        |
| <u>ASUS AGP-V3800PRO v31.40H</u>         | 4 | 2535 | NA                   | NA                        |
| <u>Dell 8200</u>                         | 4 | 2537 | NA                   | NA                        |
| <u>GeForce2 Go</u>                       | 4 | 2541 | NA                   | NA                        |
| <u>GeForce2 Integrated GPU</u>           | 4 | 2536 | NA                   | NA                        |
| <u>GeForce2 MX with DVI-D and TV-out</u> | 4 | 2520 | NA                   | NA                        |
| <u>GeForce2 Ti</u>                       | 4 | 2528 | NA                   | NA                        |
| <u>GeForce3</u>                          | 4 | 2517 | NA                   | NA                        |
| <u>GeForce3 Ti 200</u>                   | 4 | 2543 | NA                   | NA                        |
| <u>GeForce4 440</u>                      | 4 | 2514 | NA                   | NA                        |
| <u>GeForce4 MX 4000</u>                  | 4 | 2534 | NA                   | NA                        |
| <u>GeForce4 MX 420</u>                   | 4 | 2521 | NA                   | NA                        |
| <u>GeForce4 MX 440</u>                   | 4 | 2531 | NA                   | NA                        |
| <u>GeForce4 MX 440 with AGP8X</u>        | 4 | 2518 | NA                   | NA                        |

| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)    |
|-----------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-------------------|
| CPU<br>Benchmarks                                         | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks |

|                                                           |                                               |                              |                                             |                          |
|-----------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|--------------------------|
| <u>Intel 82865G Controller</u>                            | 4                                             | 2525                         | NA                                          | NA                       |
| <u>Intel 915G,910G Express</u>                            | 4                                             | 2545                         | NA                                          | NA                       |
| <u>Intel 915G/915GV/910GL Embedded Controller Functio</u> | 4                                             | 2526                         | NA                                          | NA                       |
| <u>Intel 945G Embedded Chipset Function 0</u>             | 4                                             | 2533                         | NA                                          | NA                       |
| <u>MOBILITY FIREGL 7800</u>                               | 4                                             | 2522                         | NA                                          | NA                       |
| <u>MOBILITY/RADEON 9000</u>                               | 4                                             | 2542                         | NA                                          | NA                       |
| <u>Quadro2 MXR/EX</u>                                     | 4                                             | 2532                         | NA                                          | NA                       |
| <u>Quadro4 900 XGL</u>                                    | 4                                             | 2515                         | NA                                          | NA                       |
| <u>RADEON 7500 Family</u>                                 | 4                                             | 2523                         | NA                                          | NA                       |
| <u>RADEON 9000</u>                                        | 4                                             | 2527                         | NA                                          | NA                       |
| <u>VIA Chrome9 HC IGP</u>                                 | 4                                             | 2538                         | NA                                          | NA                       |
| <u>VIA/S3G KM400/KN400</u>                                | 4                                             | 2544                         | NA                                          | NA                       |
| Videocard Name                                            | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)           |
| <u>VIA/S3G UniChrome IGP</u>                              | 4                                             | 2539                         | NA                                          | NA                       |
| <u>VIA/S3G UniChrome Pro IGP</u>                          | 4                                             | 2524                         | NA                                          | NA                       |
| <u>WinFast A250 LE</u>                                    | 4                                             | 2519                         | NA                                          | NA                       |
| <u>XGI Volari Family v1.13.23.D _V</u>                    | 4                                             | 2529                         | NA                                          | NA                       |
| <u>ALL-IN-WONDER RADEON 8500DV</u>                        | 5                                             | 2502                         | NA                                          | NA                       |
| <u>GeForce 256</u>                                        | 5                                             | 2512                         | <a href="#">0.12</a>                        | <a href="#">\$42.04*</a> |
| <u>GeForce4 420 Go 32M</u>                                | 5                                             | 2507                         | NA                                          | NA                       |
| <u>GeForce4 440 Go 64M</u>                                | 5                                             | 2493                         | NA                                          | NA                       |
| <u>GeForce4 448 Go</u>                                    | 5                                             | 2504                         | NA                                          | NA                       |
| <u>GeForce4 Ti 4200</u>                                   | 5                                             | 2503                         | NA                                          | NA                       |
| <u>GeForce4 Ti 4600</u>                                   | 5                                             | 2505                         | <a href="#">0.10</a>                        | <a href="#">\$53.99*</a> |
| <u>GeForce4 Ti 4800</u>                                   | 5                                             | 2495                         | NA                                          | NA                       |
| <u>Intel 82915G Express</u>                               | 5                                             | 2499                         | NA                                          | NA                       |
| <u>Matrox Millennium P650 PCIe 128</u>                    | 5                                             | 2508                         | NA                                          | NA                       |
| <u>Matrox Parhelia APVe</u>                               | 5                                             | 2501                         | NA                                          | NA                       |
| <u>Mobile Intel 945GM Express</u>                         | 5                                             | 2496                         | NA                                          | NA                       |
| <u>Mobile Intel 945GM/GU Express</u>                      | 5                                             | 2509                         | NA                                          | NA                       |
| <u>MOBILITY RADEON 9000/9100 IGP</u>                      | 5                                             | 2500                         | NA                                          | NA                       |

| CPU Benchmarks |  | Video Card Benchmarks                                    | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare               | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|----------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|------------------------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name                                           | Passmark G3D Mark (higher is better) |                        | Rank (lower is better)             | Videocard Value (higher is better) | Price (USD)         |                    |                |
|                |  | <a href="#">Quadro4 980 XGL</a>                          | 5                                    | 2513                   | <a href="#">0.01</a>               | <a href="#">\$341.43*</a>          |                     |                    |                |
|                |  | <a href="#">RADEON 9100 IGP</a>                          | 5                                    | 2506                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">SAPPHIRE RADEON 9000 ATLANTIS PRO</a>        | 5                                    | 2510                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">VIA/S3G UniChromell</a>                      | 5                                    | 2494                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Xabre</a>                                    | 5                                    | 2511                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce PCX 5300</a>                         | 6                                    | 2489                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce2 Ultra</a>                           | 6                                    | 2487                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce4 MX Integrated GPU</a>               | 6                                    | 2485                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce4 Ti 4800 SE</a>                      | 6                                    | 2481                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Intel Media Accelerator 600</a>              | 6                                    | 2480                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Matrox Millennium P690 Plus LP PCIe x16</a>  | 6                                    | 2482                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">MOBILITY RADEON 7000 IGP</a>                 | 6                                    | 2488                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Quadro NVS 55/280 PCI</a>                    | 6                                    | 2491                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Quadro4 380 XGL</a>                          | 6                                    | 2483                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">RADEON 8500 Family</a>                       | 6                                    | 2484                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">RADEON 9100 Family</a>                       | 6                                    | 2490                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">RADEON IGP 350M</a>                          | 6                                    | 2492                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">V9560XT</a>                                  | 6                                    | 2486                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">ASUS V9520-X V62.11</a>                      | 7                                    | 2473                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce FX 5100</a>                          | 7                                    | 2472                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce FX 5200</a>                          | 7                                    | 2476                   | <a href="#">0.06</a>               | <a href="#">\$129.00*</a>          |                     |                    |                |
|                |  | <a href="#">GeForce FX 5200LE</a>                        | 7                                    | 2479                   | <a href="#">0.16</a>               | <a href="#">\$42.99*</a>           |                     |                    |                |
|                |  | <a href="#">GeForce4 Ti 4400</a>                         | 7                                    | 2478                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Intel Q33 Express</a>                        | 7                                    | 2474                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Intel US15 Embedded Media and Controller</a> | 7                                    | 2477                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">MOBILITY RADEON 9000 IGP</a>                 | 7                                    | 2471                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">Quadro FX 500/FX 600</a>                     | 7                                    | 2475                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeCube RADEON 7000</a>                       | 8                                    | 2464                   | NA                                 | NA                                 |                     |                    |                |
|                |  | <a href="#">GeForce FX 5500</a>                          | 8                                    | 2467                   | <a href="#">0.05</a>               | <a href="#">\$153.97*</a>          |                     |                    |                |
|                |  | Videocard Name                                           | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                        |                     |                    |                |
|                |  | <a href="#">GeForce FX Go 5200</a>                       | 8                                    | 2465                   | NA                                 | NA                                 |                     |                    |                |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                               |    |      |                      |                           |
|---------------------------------------------------------------|----|------|----------------------|---------------------------|
| <a href="#">Mobile Intel 965 Express - BR-0907-0461 v1839</a> | 8  | 2468 | NA                   | NA                        |
| <a href="#">Quadro NVS 280 PCI</a>                            | 8  | 2469 | <a href="#">0.06</a> | <a href="#">\$130.00*</a> |
| <a href="#">ASUS A7000</a>                                    | 9  | 2462 | NA                   | NA                        |
| <a href="#">GeForce FX 5600XT</a>                             | 9  | 2463 | NA                   | NA                        |
| <a href="#">Matrox Parhelia 256MB</a>                         | 9  | 2460 | NA                   | NA                        |
| <a href="#">VIA Chrome9 HD IGP</a>                            | 9  | 2461 | NA                   | NA                        |
| <a href="#">Intel 82945G Express</a>                          | 10 | 2457 | NA                   | NA                        |
| <a href="#">Master X3100 Driver</a>                           | 10 | 2458 | NA                   | NA                        |
| <a href="#">MOBILITY IGP 9000/9100</a>                        | 10 | 2459 | NA                   | NA                        |
| <a href="#">FireMV 2400 PCIe</a>                              | 11 | 2454 | NA                   | NA                        |
| <a href="#">GeForce FX 5200SE</a>                             | 11 | 2453 | NA                   | NA                        |
| <a href="#">PHDGD Solo 1.2.0 x86</a>                          | 11 | 2456 | NA                   | NA                        |
| <a href="#">RGH Drivers v3</a>                                | 11 | 2455 | NA                   | NA                        |
| <a href="#">GeForce 7000M / nForce 610M</a>                   | 12 | 2449 | NA                   | NA                        |
| <a href="#">GeForce FX 5200 Ultra</a>                         | 12 | 2452 | NA                   | NA                        |
| <a href="#">GeForce FX 5600</a>                               | 12 | 2450 | NA                   | NA                        |
| <a href="#">GeForce FX Go5300</a>                             | 12 | 2451 | NA                   | NA                        |
| <a href="#">GeForce 7000M</a>                                 | 13 | 2448 | NA                   | NA                        |
| <a href="#">Quadro FX 500/600 PCI</a>                         | 14 | 2446 | NA                   | NA                        |
| <a href="#">Radeon HD 2400 PCI</a>                            | 14 | 2447 | NA                   | NA                        |
| <a href="#">GeForce Go 6200</a>                               | 15 | 2445 | NA                   | NA                        |
| <a href="#">NV44</a>                                          | 15 | 2444 | NA                   | NA                        |
| <a href="#">GeForce FX Go5650</a>                             | 16 | 2442 | NA                   | NA                        |
| <a href="#">GRID V100-8Q</a>                                  | 16 | 2443 | NA                   | NA                        |
| <a href="#">GeForce FX 5600 Ultra</a>                         | 17 | 2441 | NA                   | NA                        |
| <a href="#">GeForce FX Go 5600</a>                            | 17 | 2439 | NA                   | NA                        |
| <a href="#">GeForce Go 6100</a>                               | 17 | 2438 | NA                   | NA                        |
| <a href="#">Mobile Intel965 Express</a>                       | 17 | 2440 | NA                   | NA                        |
| <a href="#">GeForce 7150M / nForce 630M</a>                   | 18 | 2435 | NA                   | NA                        |
| <a href="#">Quadro FX 2000</a>                                | 18 | 2437 | NA                   | NA                        |
| <a href="#">QXL KMDOD</a>                                     | 18 | 2432 | NA                   | NA                        |
| <a href="#">RADEON 9600 TX Family</a>                         | 18 | 2434 | NA                   | NA                        |

| Videocard Name    |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)    |
|-------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-------------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks |

|                                                 |                                               |                              |                                             |                           |
|-------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>GeForce Go 6150</u>                          | 19                                            | 2431                         | NA                                          | NA                        |
| <u>Matrox M9120 PCIe x16</u>                    | 19                                            | 2430                         | NA                                          | NA                        |
| <u>PHDGD Solo 2 x64</u>                         | 20                                            | 2429                         | NA                                          | NA                        |
| <u>Quadro NVS 210S / GeForce 6150LE</u>         | 20                                            | 2428                         | NA                                          | NA                        |
| <u>GeForce 6150</u>                             | 21                                            | 2427                         | <a href="#">0.07</a>                        | <a href="#">\$329.00*</a> |
| <u>RADEON A9800XT</u>                           | 22                                            | 2425                         | NA                                          | NA                        |
| <u>RADEON XPRESS 200M</u>                       | 22                                            | 2426                         | NA                                          | NA                        |
| <u>ALL-IN-WONDER 9800</u>                       | 23                                            | 2422                         | NA                                          | NA                        |
| <u>GeForce 6100 nForce 430</u>                  | 23                                            | 2424                         | NA                                          | NA                        |
| <u>GeForce 7200 GS</u>                          | 23                                            | 2423                         | NA                                          | NA                        |
| <u>Matrox M9140 LP PCIe x16</u>                 | 23                                            | 2421                         | NA                                          | NA                        |
| <u>Quadro NVS 210S</u>                          | 23                                            | 2419                         | NA                                          | NA                        |
| Videocard Name                                  | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>RADEON 9800 SE</u>                           | 23                                            | 2420                         | NA                                          | NA                        |
| <u>GeForce 6150SE</u>                           | 24                                            | 2415                         | NA                                          | NA                        |
| <u>GeForce FX 5700LE</u>                        | 24                                            | 2416                         | NA                                          | NA                        |
| <u>GeForce Go 6400</u>                          | 24                                            | 2417                         | NA                                          | NA                        |
| <u>Mobile Intel 965 Express-Chipsatzfamilie</u> | 24                                            | 2418                         | NA                                          | NA                        |
| <u>MOBILITY RADEON 9600 PRO TURBO</u>           | 24                                            | 2414                         | NA                                          | NA                        |
| <u>GeForce 6100 nForce 400</u>                  | 25                                            | 2412                         | NA                                          | NA                        |
| <u>GeForce 6100 nForce 420</u>                  | 25                                            | 2411                         | NA                                          | NA                        |
| <u>GeForce 7050 / nForce 610i</u>               | 25                                            | 2409                         | NA                                          | NA                        |
| <u>Matrox M9120 Plus LP PCIe x16</u>            | 25                                            | 2408                         | NA                                          | NA                        |
| <u>Matrox M9125 PCIe x16</u>                    | 25                                            | 2410                         | NA                                          | NA                        |
| <u>PHDGD Sapphire GR for Mobile Intel 965</u>   | 25                                            | 2407                         | NA                                          | NA                        |
| <u>RADEON 9600 Family</u>                       | 25                                            | 2413                         | NA                                          | NA                        |
| <u>GeForce 6100 nForce 405</u>                  | 26                                            | 2403                         | NA                                          | NA                        |
| <u>GeForce 7100 / nForce 620i</u>               | 26                                            | 2406                         | NA                                          | NA                        |
| <u>RADEON 9600 PRO Family</u>                   | 26                                            | 2404                         | NA                                          | NA                        |
| <u>Radeon Xpress 1270</u>                       | 26                                            | 2405                         | NA                                          | NA                        |
| <u>GeForce 6100</u>                             | 27                                            | 2401                         | NA                                          | NA                        |

|                                      |                                             |                               |                                           |                          |
|--------------------------------------|---------------------------------------------|-------------------------------|-------------------------------------------|--------------------------|
| <u>MOBILITY RADEON XPRESS 200</u>    | 27                                          | 2402                          | NA                                        | NA                       |
| <u>RADEON 9600SE</u>                 | 27                                          | 2400                          | NA                                        | NA                       |
| <u>Radeon 9550 / X1050</u>           | 29                                          | 2397                          | NA                                        | NA                       |
| <u>Radeon Xpress 1150</u>            | 29                                          | 2395                          | NA                                        | NA                       |
| <u>RADEON XPRESS 200</u>             | 29                                          | 2396                          | NA                                        | NA                       |
| <u>All-in-Wonder X1800XL</u>         | 30                                          | 2394                          | NA                                        | NA                       |
| <u>FireGL T2-128</u>                 | 30                                          | 2392                          | NA                                        | NA                       |
| <u>GeForce 6150SE nForce 430</u>     | 30                                          | 2391                          | NA                                        | NA                       |
| <u>MOBILITY RADEON 9550</u>          | 30                                          | 2393                          | NA                                        | NA                       |
| <u>GeForce 7050 PV / nForce 630a</u> | 31                                          | 2389                          | NA                                        | NA                       |
| <u>Matrox M9128 LP PCIe x16</u>      | 31                                          | 2387                          | NA                                        | NA                       |
| <u>Radeon X1270</u>                  | 31                                          | 2390                          | NA                                        | NA                       |
| <u>Red Hat QXL controller</u>        | 31                                          | 2388                          | NA                                        | NA                       |
| <u>GeForce 6200 A-LE</u>             | 32                                          | 2386                          | NA                                        | NA                       |
| <u>GeForce 6200 LE</u>               | 32                                          | 2382                          | <a href="#">0.80</a>                      | <a href="#">\$41.24*</a> |
| <u>GeForce 7025 / nForce 630a</u>    | 32                                          | 2385                          | NA                                        | NA                       |
| <u>GeForce FX 5900ZT</u>             | 32                                          | 2383                          | NA                                        | NA                       |
| <u>Intel Media Accelerator</u>       | 32                                          | 2381                          | NA                                        | NA                       |
| <u>Radeon X1200</u>                  | 32                                          | 2384                          | NA                                        | NA                       |
| <u>GeForce 6150 LE</u>               | 33                                          | 2377                          | NA                                        | NA                       |
| <u>GeForce 7150 / nForce 630i</u>    | 33                                          | 2380                          | NA                                        | NA                       |
| <u>GeForce FX 5700VE</u>             | 33                                          | 2379                          | NA                                        | NA                       |
| <u>MOBILITY FIREGL T2/T2e</u>        | 33                                          | 2375                          | NA                                        | NA                       |
| <u>Mobility Radeon X1450</u>         | 33                                          | 2378                          | NA                                        | NA                       |
| <u>MOBILITY RADEON X300</u>          | 33                                          | 2374                          | NA                                        | NA                       |
| <u>S3 Chrome S27 DDR3</u>            | 33                                          | 2376                          | NA                                        | NA                       |
| <u>GeForce FX 5700 Ultra</u>         | 34                                          | 2371                          | NA                                        | NA                       |
| <u>GeForce FX 5900</u>               | 34                                          | 2368                          | NA                                        | NA                       |
| <u>GeForce PCX 5750</u>              | 34                                          | 2366                          | NA                                        | NA                       |
| <b>Videocard Name</b>                | <b>Passmark G3D Mark (higher is better)</b> | <b>Rank (lower is better)</b> | <b>Videocard Value (higher is better)</b> | <b>Price (USD)</b>       |
| <u>GeForce PCX 5900</u>              | 34                                          | 2372                          | NA                                        | NA                       |

|                   |                          | Videocard Name           |                      |                  |                         | Passmark<br>G3D Mark<br>(higher is better) | Rank<br>(lower is better) | Videocard<br>Value<br>(higher is better) | Price<br>(USD) |
|-------------------|--------------------------|--------------------------|----------------------|------------------|-------------------------|--------------------------------------------|---------------------------|------------------------------------------|----------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare | Database<br>Benchmarks                     | Android<br>Benchmarks     | iOS<br>Benchmarks                        |                |

|                                                   |    |      |                      |                           |
|---------------------------------------------------|----|------|----------------------|---------------------------|
| <u>RADEON 9550</u>                                | 34 | 2367 | <a href="#">0.12</a> | <a href="#">\$291.74*</a> |
| <u>Radeon Xpress 1100</u>                         | 34 | 2373 | NA                   | NA                        |
| <u>Quadro FX 1100</u>                             | 35 | 2363 | <a href="#">0.17</a> | <a href="#">\$212.99*</a> |
| <u>RADEON 9600 XT</u>                             | 35 | 2365 | NA                   | NA                        |
| <u>Radeon Xpress 1200</u>                         | 35 | 2364 | NA                   | NA                        |
| <u>CONNECT 3D RADEON X300</u>                     | 36 | 2359 | NA                   | NA                        |
| <u>FireMV 2200 PCIe</u>                           | 36 | 2361 | <a href="#">0.40</a> | <a href="#">\$89.99*</a>  |
| <u>Matrox G200eR</u>                              | 36 | 2358 | NA                   | NA                        |
| <u>MOBILITY RADEON 9600</u>                       | 36 | 2362 | NA                   | NA                        |
| <u>RADEON 9500</u>                                | 36 | 2360 | <a href="#">0.90</a> | <a href="#">\$40.50*</a>  |
| <u>256MB DDR Radeon 9800 XT</u>                   | 37 | 2353 | NA                   | NA                        |
| <u>GeForce 6200</u>                               | 37 | 2355 | <a href="#">0.71</a> | <a href="#">\$53.17*</a>  |
| <u>GeForce 6200SE TurboCache</u>                  | 37 | 2357 | NA                   | NA                        |
| <u>GeForce 7050 / nForce 630i</u>                 | 37 | 2352 | NA                   | NA                        |
| <u>Quadro NVS 440</u>                             | 37 | 2354 | <a href="#">0.16</a> | <a href="#">\$228.87*</a> |
| <u>Radeon X1250</u>                               | 37 | 2356 | NA                   | NA                        |
| <u>GeForce 6500</u>                               | 38 | 2349 | NA                   | NA                        |
| <u>Mobile Intel - famiglia Express Chipset 45</u> | 38 | 2348 | NA                   | NA                        |
| <u>Quadro NVS 285 128MB</u>                       | 38 | 2350 | <a href="#">0.70</a> | <a href="#">\$55.00*</a>  |
| <u>RADEON X300SE</u>                              | 38 | 2351 | NA                   | NA                        |
| <u>GeForce 7300 SE</u>                            | 39 | 2347 | NA                   | NA                        |
| <u>Matrox G200eW</u>                              | 39 | 2343 | NA                   | NA                        |
| <u>MOBILITY RADEON 9600/9700</u>                  | 39 | 2346 | NA                   | NA                        |
| <u>Mobility Radeon X1300</u>                      | 39 | 2344 | NA                   | NA                        |
| <u>Mobility Radeon X1350</u>                      | 39 | 2342 | NA                   | NA                        |
| <u>S3 Chrome 430 ULP</u>                          | 39 | 2345 | NA                   | NA                        |
| <u>GeForce FX 5700</u>                            | 40 | 2336 | NA                   | NA                        |
| <u>GeForce FX 5900XT</u>                          | 40 | 2341 | NA                   | NA                        |
| <u>Matrox G200eh</u>                              | 40 | 2338 | NA                   | NA                        |
| <u>Matrox M9148 LP PCIe x16</u>                   | 40 | 2340 | NA                   | NA                        |
| <u>MOBILITY FIREGL T2</u>                         | 40 | 2337 | NA                   | NA                        |
| <u>Radeon Xpress 1300M</u>                        | 40 | 2339 | NA                   | NA                        |

| Videocard Name                                | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>GeForce FX 5900 Ultra</u>                  | 41                                            | 2335                         | NA                                          | NA                        |
| <u>Mobile Intel 45 Express</u>                | 41                                            | 2333                         | NA                                          | NA                        |
| <u>RADEON 9500 PRO / 9700</u>                 | 41                                            | 2332                         | NA                                          | NA                        |
| <u>Intel G33/G31 Express</u>                  | 42                                            | 2326                         | NA                                          | NA                        |
| <u>Matrox M9138 LP PCIe x16</u>               | 42                                            | 2330                         | NA                                          | NA                        |
| <u>Mobility Radeon X1400</u>                  | 42                                            | 2327                         | NA                                          | NA                        |
| <u>RADEON 9600 PRO</u>                        | 42                                            | 2328                         | NA                                          | NA                        |
| <u>Radeon Xpress 1250</u>                     | 42                                            | 2329                         | NA                                          | NA                        |
| <u>Quadro NVS 285</u>                         | 43                                            | 2325                         | <a href="#">0.26</a>                        | <a href="#">\$169.86*</a> |
| <u>GeForce Go 6600 TE/6200 TE</u>             | 44                                            | 2320                         | NA                                          | NA                        |
| <u>Mobile Intel 4 Express-Chipsatzfamilie</u> | 44                                            | 2323                         | NA                                          | NA                        |
| <u>Mobile Intel serie 4 Express</u>           | 44                                            | 2322                         | NA                                          | NA                        |
| Videocard Name                                | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>MOBILITY FireGL V5200</u>                  | 44                                            | 2319                         | NA                                          | NA                        |
| <u>Quadro FX 350M</u>                         | 44                                            | 2321                         | NA                                          | NA                        |
| <u>Radeon 9700 TX w/TV-Out</u>                | 44                                            | 2324                         | NA                                          | NA                        |
| <u>FireMV 2250</u>                            | 45                                            | 2316                         | <a href="#">0.44</a>                        | <a href="#">\$104.00*</a> |
| <u>GeForce Go 7200</u>                        | 45                                            | 2318                         | NA                                          | NA                        |
| <u>Matrox G200eR WDDM 1.2</u>                 | 45                                            | 2317                         | NA                                          | NA                        |
| <u>Matrox G200eh WDDM 2.0</u>                 | 46                                            | 2314                         | NA                                          | NA                        |
| <u>Mobile Intel 965 Express</u>               | 46                                            | 2313                         | NA                                          | NA                        |
| <u>MOBILITY RADEON 9800</u>                   | 46                                            | 2315                         | NA                                          | NA                        |
| <u>Quadro NVS 120M</u>                        | 46                                            | 2312                         | NA                                          | NA                        |
| <u>GeForce 7300 SE/7200 GS</u>                | 47                                            | 2310                         | NA                                          | NA                        |
| <u>Quadro NVS 110M</u>                        | 47                                            | 2309                         | NA                                          | NA                        |
| <u>Radeon X1550 64-bit</u>                    | 47                                            | 2308                         | NA                                          | NA                        |
| <u>SAPPHIRE RADEON 9600 ATLANTIS</u>          | 47                                            | 2311                         | NA                                          | NA                        |
| <u>Mobility Radeon X2300</u>                  | 48                                            | 2307                         | NA                                          | NA                        |
| <u>Mobility Radeon X2300 HD</u>               | 48                                            | 2306                         | NA                                          | NA                        |
| <u>MOBILITY RADEON X600 SE</u>                | 49                                            | 2303                         | NA                                          | NA                        |
| <u>Radeon X1050</u>                           | 49                                            | 2304                         | NA                                          | NA                        |

|                   |                          | Videocard Name           |                      |                  |                         | Passmark<br>G3D Mark<br>(higher is better) | Rank<br>(lower is better) | Videocard<br>Value<br>(higher is better) | Price<br>(USD) |
|-------------------|--------------------------|--------------------------|----------------------|------------------|-------------------------|--------------------------------------------|---------------------------|------------------------------------------|----------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare | Database<br>Benchmarks                     | Android<br>Benchmarks     | iOS<br>Benchmarks                        |                |

|                                        |                                      |                        |                                    |                           |
|----------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <u>Matrox G200eW WDDM 1.2</u>          | 50                                   | 2301                   | NA                                 | NA                        |
| <u>Mobility Radeon HD 2300</u>         | 50                                   | 2298                   | NA                                 | NA                        |
| <u>MOBILITY RADEON X600</u>            | 50                                   | 2300                   | NA                                 | NA                        |
| <u>Quadro NVS 135M</u>                 | 50                                   | 2299                   | NA                                 | NA                        |
| <u>RADEON X550</u>                     | 50                                   | 2297                   | NA                                 | NA                        |
| <u>FirePro 2450</u>                    | 51                                   | 2296                   | <a href="#">0.57</a>               | <a href="#">\$89.99*</a>  |
| <u>GeForce 6600 LE</u>                 | 51                                   | 2294                   | NA                                 | NA                        |
| <u>GeForce 7100 GS</u>                 | 51                                   | 2295                   | NA                                 | NA                        |
| <u>GeForce FX Go5700</u>               | 51                                   | 2293                   | NA                                 | NA                        |
| <u>Matrox G200eh WDDM 1.2</u>          | 51                                   | 2291                   | NA                                 | NA                        |
| <u>RADEON E2400</u>                    | 51                                   | 2292                   | NA                                 | NA                        |
| <u>FireGL V3100</u>                    | 52                                   | 2288                   | NA                                 | NA                        |
| <u>GeForce Go 7300</u>                 | 52                                   | 2290                   | NA                                 | NA                        |
| <u>Radeon Xpress 1300</u>              | 52                                   | 2289                   | NA                                 | NA                        |
| <u>GeForce 6200 TurboCache</u>         | 53                                   | 2287                   | NA                                 | NA                        |
| <u>RADEON 9700 PRO</u>                 | 53                                   | 2286                   | NA                                 | NA                        |
| <u>Intel - Express Chipset G41</u>     | 56                                   | 2283                   | NA                                 | NA                        |
| <u>RADEON 9800 XT</u>                  | 56                                   | 2282                   | NA                                 | NA                        |
| <u>RADEON X550XT</u>                   | 56                                   | 2285                   | NA                                 | NA                        |
| <u>RADEON X600 256MB HyperMemory</u>   | 56                                   | 2284                   | NA                                 | NA                        |
| <u>Intel - Express Chipset Q45/Q43</u> | 57                                   | 2278                   | NA                                 | NA                        |
| <u>Intel G41 Express-Chipsatz</u>      | 57                                   | 2280                   | NA                                 | NA                        |
| <u>Intel Q45/Q43 Express-Chipsatz</u>  | 57                                   | 2281                   | NA                                 | NA                        |
| <u>RADEON 9800</u>                     | 57                                   | 2279                   | <a href="#">0.18</a>               | <a href="#">\$325.00*</a> |
| <u>GeForce 6800 XE</u>                 | 58                                   | 2275                   | NA                                 | NA                        |
| <u>GeForce 8200M G</u>                 | 58                                   | 2277                   | NA                                 | NA                        |
| <u>Radeon X1300</u>                    | 58                                   | 2276                   | <a href="#">0.61</a>               | <a href="#">\$95.78*</a>  |
| <u>FireGL X1</u>                       | 59                                   | 2274                   | NA                                 | NA                        |
| <u>GeForce FX 5950 Ultra</u>           | 59                                   | 2273                   | NA                                 | NA                        |
| Videocard Name                         | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <u>Matrox G200e WDDM 1.2</u>           | 59                                   | 2272                   | NA                                 | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                   |    |      |                      |                           |
|---------------------------------------------------|----|------|----------------------|---------------------------|
| <a href="#">RADEON 9800 PRO</a>                   | 59 | 2271 | NA                   | NA                        |
| <a href="#">SAPPHIRE Radeon X1550</a>             | 61 | 2268 | NA                   | NA                        |
| <a href="#">GeForce G 103M</a>                    | 62 | 2266 | NA                   | NA                        |
| <a href="#">GeForce G 105M</a>                    | 62 | 2263 | NA                   | NA                        |
| <a href="#">Intel HD manual-15.28-1861</a>        | 62 | 2265 | NA                   | NA                        |
| <a href="#">MOBILITY FireGL V3200</a>             | 62 | 2267 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 3410</a>           | 62 | 2264 | NA                   | NA                        |
| <a href="#">Quadro FX 550</a>                     | 63 | 2262 | <a href="#">0.22</a> | <a href="#">\$287.82*</a> |
| <a href="#">RADEON X800 PRO</a>                   | 64 | 2261 | NA                   | NA                        |
| <a href="#">GeForce Go 7400</a>                   | 65 | 2260 | NA                   | NA                        |
| <a href="#">GeForce 8400M GT</a>                  | 66 | 2257 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 4225</a>           | 66 | 2259 | NA                   | NA                        |
| <a href="#">MOBILITY RADEON X700</a>              | 66 | 2256 | NA                   | NA                        |
| <a href="#">Quadro NVS 450</a>                    | 66 | 2255 | <a href="#">0.15</a> | <a href="#">\$443.32</a>  |
| <a href="#">Radeon X1550</a>                      | 66 | 2258 | <a href="#">0.43</a> | <a href="#">\$155.00*</a> |
| <a href="#">GeForce 9400M G</a>                   | 67 | 2253 | NA                   | NA                        |
| <a href="#">Intel G45/G43/G41 Express Chipset</a> | 67 | 2251 | NA                   | NA                        |
| <a href="#">Matrox G200eR WDDM 2.0</a>            | 67 | 2252 | NA                   | NA                        |
| <a href="#">RADEON X600 PRO</a>                   | 67 | 2254 | <a href="#">0.42</a> | <a href="#">\$160.49*</a> |
| <a href="#">FireGL V3350</a>                      | 68 | 2248 | NA                   | NA                        |
| <a href="#">GeForce 8400 SE</a>                   | 68 | 2249 | NA                   | NA                        |
| <a href="#">GeForce 9100M G</a>                   | 68 | 2250 | NA                   | NA                        |
| <a href="#">BASICDISPLAY</a>                      | 69 | 2243 | NA                   | NA                        |
| <a href="#">GeForce Go 6600</a>                   | 69 | 2244 | NA                   | NA                        |
| <a href="#">Quadro FX 3000</a>                    | 69 | 2247 | <a href="#">0.41</a> | <a href="#">\$166.61*</a> |
| <a href="#">Radeon X1600 Pro / X1300XT</a>        | 69 | 2246 | NA                   | NA                        |
| <a href="#">RADEON X800 XL</a>                    | 69 | 2245 | NA                   | NA                        |
| <a href="#">Diamond X1300-PCIE 256MB</a>          | 70 | 2242 | NA                   | NA                        |
| <a href="#">FireGL V3300</a>                      | 70 | 2240 | NA                   | NA                        |
| <a href="#">Quadro NVS 150M</a>                   | 70 | 2241 | NA                   | NA                        |
| <a href="#">Radeon X550XTX</a>                    | 70 | 2239 | NA                   | NA                        |
| <a href="#">FireGL V7100</a>                      | 71 | 2234 | <a href="#">0.22</a> | <a href="#">\$328.67*</a> |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                 |                                      |                        |                                    |                           |
|-------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Radeon X1650 SE</a>                 | 71                                   | 2238                   | NA                                 | NA                        |
| <a href="#">RADEON X700 SE</a>                  | 71                                   | 2237                   | NA                                 | NA                        |
| <a href="#">Intel Q35 Express</a>               | 72                                   | 2233                   | NA                                 | NA                        |
| <a href="#">RADEON X700</a>                     | 72                                   | 2232                   | NA                                 | NA                        |
| <a href="#">RADEON X850 PRO</a>                 | 72                                   | 2231                   | NA                                 | NA                        |
| <a href="#">FireMV 2450</a>                     | 73                                   | 2227                   | NA                                 | NA                        |
| <a href="#">Mobility Radeon HD 4300 Serisi</a>  | 73                                   | 2230                   | NA                                 | NA                        |
| <a href="#">Radeon 3100</a>                     | 73                                   | 2228                   | <a href="#">0.39</a>               | <a href="#">\$189.15*</a> |
| <a href="#">RADEON X800 PRO/GTO</a>             | 73                                   | 2229                   | NA                                 | NA                        |
| <a href="#">GeForce 7350 LE</a>                 | 74                                   | 2226                   | NA                                 | NA                        |
| <a href="#">Radeon X1650 GTO</a>                | 74                                   | 2225                   | NA                                 | NA                        |
| <a href="#">M860G with Mobility Radeon 4100</a> | 75                                   | 2224                   | NA                                 | NA                        |
| Videocard Name                                  | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">RADEON X700 PRO</a>                 | 75                                   | 2223                   | NA                                 | NA                        |
| <a href="#">Radeon HD 2350</a>                  | 76                                   | 2222                   | NA                                 | NA                        |
| <a href="#">GeForce 7300 GS</a>                 | 78                                   | 2219                   | NA                                 | NA                        |
| <a href="#">GeForce 7300 LE</a>                 | 78                                   | 2220                   | <a href="#">2.46</a>               | <a href="#">\$32.00*</a>  |
| <a href="#">Quadro NVS 140M</a>                 | 78                                   | 2221                   | NA                                 | NA                        |
| <a href="#">GeForce 8100 / nForce 720a</a>      | 79                                   | 2218                   | NA                                 | NA                        |
| <a href="#">RADEON X800GT</a>                   | 79                                   | 2217                   | NA                                 | NA                        |
| <a href="#">Quadro FX 540</a>                   | 80                                   | 2216                   | <a href="#">1.35</a>               | <a href="#">\$59.99*</a>  |
| <a href="#">GeForce 8400</a>                    | 81                                   | 2212                   | <a href="#">0.14</a>               | <a href="#">\$589.99*</a> |
| <a href="#">GeForce 9100</a>                    | 81                                   | 2206                   | NA                                 | NA                        |
| <a href="#">GeForce 9300 SE</a>                 | 81                                   | 2210                   | NA                                 | NA                        |
| <a href="#">MOBILITY FireGL V5000</a>           | 81                                   | 2209                   | NA                                 | NA                        |
| <a href="#">Mobility Radeon 4100</a>            | 81                                   | 2214                   | NA                                 | NA                        |
| <a href="#">Mobility Radeon X2500</a>           | 81                                   | 2208                   | NA                                 | NA                        |
| <a href="#">nForce 980a/780a SLI</a>            | 81                                   | 2211                   | NA                                 | NA                        |
| <a href="#">RADEON X800 XT Platinum Edition</a> | 81                                   | 2213                   | NA                                 | NA                        |
| <a href="#">RADEON X850 XT</a>                  | 81                                   | 2215                   | NA                                 | NA                        |
| <a href="#">RADEON X850 XT Platinum Edition</a> | 81                                   | 2207                   | NA                                 | NA                        |

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

| Videocard Name                            | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>GeForce 999 GTX</u>                    | 83                                            | 2201                         | NA                                          | NA                        |
| <u>nForce 750a SLI</u>                    | 83                                            | 2203                         | NA                                          | NA                        |
| <u>Quadro FX 370</u>                      | 83                                            | 2202                         | <a href="#">0.67</a>                        | <a href="#">\$125.00*</a> |
| <u>ALL-IN-WONDER X800 GT</u>              | 84                                            | 2198                         | NA                                          | NA                        |
| <u>FireGL V3200</u>                       | 84                                            | 2195                         | NA                                          | NA                        |
| <u>GeForce 9300M G</u>                    | 84                                            | 2197                         | NA                                          | NA                        |
| <u>Radeon X1300 PRO</u>                   | 84                                            | 2199                         | NA                                          | NA                        |
| <u>Radeon X1650 Pro</u>                   | 84                                            | 2196                         | <a href="#">0.53</a>                        | <a href="#">\$160.89*</a> |
| <u>RADEON X800 GT</u>                     | 84                                            | 2200                         | NA                                          | NA                        |
| <u>Quadro FX 350</u>                      | 85                                            | 2194                         | NA                                          | NA                        |
| <u>GeForce 6600</u>                       | 86                                            | 2193                         | <a href="#">0.33</a>                        | <a href="#">\$264.00*</a> |
| <u>GeForce 9300 GE</u>                    | 86                                            | 2192                         | <a href="#">3.77</a>                        | <a href="#">\$22.99*</a>  |
| <u>Quadro FX 360M</u>                     | 86                                            | 2191                         | NA                                          | NA                        |
| <u>GeForce 6610 XL</u>                    | 88                                            | 2189                         | NA                                          | NA                        |
| <u>GeForce 8600M GS</u>                   | 88                                            | 2190                         | NA                                          | NA                        |
| <u>Matrox G200eW3 WDDM 2.0</u>            | 89                                            | 2188                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 2400</u>            | 89                                            | 2187                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 4200</u>            | 90                                            | 2186                         | NA                                          | NA                        |
| <u>GeForce 8600 GS</u>                    | 91                                            | 2182                         | NA                                          | NA                        |
| <u>GeForce G205M</u>                      | 91                                            | 2184                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 3450</u>            | 91                                            | 2185                         | NA                                          | NA                        |
| <u>RADEON X600XT</u>                      | 91                                            | 2183                         | NA                                          | NA                        |
| <u>FireGL V5100</u>                       | 92                                            | 2179                         | <a href="#">0.81</a>                        | <a href="#">\$114.96*</a> |
| <u>M880G with Mobility Radeon HD 4200</u> | 92                                            | 2178                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 4270</u>            | 92                                            | 2177                         | NA                                          | NA                        |
| <u>Mobility Radeon X1600</u>              | 92                                            | 2180                         | NA                                          | NA                        |
| <u>nForce 780a SLI</u>                    | 92                                            | 2181                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 3470</u>            | 93                                            | 2175                         | NA                                          | NA                        |
| <u>Mobility Radeon HD 3470 Hybrid X2</u>  | 93                                            | 2174                         | NA                                          | NA                        |
| Videocard Name                            | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>Quadro FX 370M</u>                     | 93                                            | 2176                         | NA                                          | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                           |     |      |             |                  |
|-------------------------------------------|-----|------|-------------|------------------|
| <u>GeForce 6700 XL</u>                    | 95  | 2171 | NA          | NA               |
| <u>Radeon HD 3000</u>                     | 95  | 2170 | NA          | NA               |
| <u>ION</u>                                | 96  | 2168 | <u>0.42</u> | <u>\$229.99*</u> |
| <u>Mobility Radeon HD serie 4200</u>      | 96  | 2169 | NA          | NA               |
| <u>GeForce 9300GE</u>                     | 97  | 2165 | <u>1.01</u> | <u>\$97.20*</u>  |
| <u>ION LE</u>                             | 97  | 2164 | NA          | NA               |
| <u>Quadro NVS 130M</u>                    | 97  | 2167 | NA          | NA               |
| <u>RADEON X800 XT</u>                     | 97  | 2166 | NA          | NA               |
| <u>GeForce 9400</u>                       | 98  | 2160 | NA          | NA               |
| <u>Mobility Radeon HD 3430</u>            | 98  | 2163 | NA          | NA               |
| <u>Mobility Radeon HD 4250</u>            | 98  | 2161 | NA          | NA               |
| <u>Radeon 3000</u>                        | 98  | 2162 | <u>0.31</u> | <u>\$319.00*</u> |
| <u>Radeon X1600 Pro</u>                   | 98  | 2159 | NA          | NA               |
| <u>GeForce 8400M GS</u>                   | 100 | 2156 | <u>1.29</u> | <u>\$78.20*</u>  |
| <u>GeForce 9300M GS</u>                   | 100 | 2158 | <u>2.30</u> | <u>\$43.42*</u>  |
| <u>Matrox G200e WDDM 2.0</u>              | 100 | 2157 | NA          | NA               |
| <u>GeForce 8300</u>                       | 101 | 2153 | <u>4.48</u> | <u>\$22.68*</u>  |
| <u>GeForce 9400M</u>                      | 101 | 2154 | NA          | NA               |
| <u>Quadro FX 4000</u>                     | 101 | 2155 | NA          | NA               |
| <u>Quadro FX Go1400</u>                   | 101 | 2152 | NA          | NA               |
| <u>GeForce 6800 GS/XT</u>                 | 102 | 2149 | NA          | NA               |
| <u>GeForce 9300 GS</u>                    | 102 | 2150 | <u>1.71</u> | <u>\$59.95*</u>  |
| <u>Mobility Radeon HD 2400 XT</u>         | 102 | 2151 | NA          | NA               |
| <u>Quadro FX 370 Low Profile</u>          | 102 | 2148 | NA          | NA               |
| <u>FireGL V3400</u>                       | 103 | 2147 | NA          | NA               |
| <u>GeForce 9500M</u>                      | 103 | 2146 | <u>1.02</u> | <u>\$101.20*</u> |
| <u>GeForce 9450</u>                       | 104 | 2140 | NA          | NA               |
| <u>M880G with Mobility Radeon HD 4250</u> | 104 | 2144 | NA          | NA               |
| <u>Mobility Radeon X1700</u>              | 104 | 2141 | NA          | NA               |
| <u>Quadro FX 3400/4400</u>                | 104 | 2143 | NA          | NA               |
| <u>Quadro FX 570M</u>                     | 104 | 2145 | NA          | NA               |
| <u>Radeon HD 6290</u>                     | 104 | 2142 | NA          | NA               |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                |                                      |                        |                                    |                           |
|------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">GeForce9400M</a>                   | 105                                  | 2137                   | NA                                 | NA                        |
| <a href="#">Quadro NVS 295</a>                 | 105                                  | 2136                   | <a href="#">1.68</a>               | <a href="#">\$63.00*</a>  |
| <a href="#">GeForce Go 6800</a>                | 106                                  | 2135                   | NA                                 | NA                        |
| <a href="#">Intel Media Accelerator HD</a>     | 106                                  | 2133                   | NA                                 | NA                        |
| <a href="#">Radeon Infoshock 3000</a>          | 106                                  | 2132                   | NA                                 | NA                        |
| <a href="#">Radeon X1950 GT</a>                | 106                                  | 2134                   | NA                                 | NA                        |
| <a href="#">Quadro FX 370 LP</a>               | 108                                  | 2131                   | NA                                 | NA                        |
| <a href="#">GeForce 6800 LE</a>                | 109                                  | 2129                   | NA                                 | NA                        |
| <a href="#">Radeon HD 4270</a>                 | 109                                  | 2128                   | NA                                 | NA                        |
| <a href="#">VIA/S3G Chrome 645/640 GPU</a>     | 109                                  | 2130                   | NA                                 | NA                        |
| <a href="#">FireGL V7350</a>                   | 110                                  | 2126                   | <a href="#">0.93</a>               | <a href="#">\$119.42*</a> |
| <a href="#">Radeon HD 2600 Pro AGP</a>         | 110                                  | 2127                   | NA                                 | NA                        |
| Videocard Name                                 | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">Mobility Radeon HD 3400 Serisi</a> | 111                                  | 2125                   | NA                                 | NA                        |
| <a href="#">Radeon HD 4200</a>                 | 111                                  | 2124                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7290</a>                 | 111                                  | 2123                   | NA                                 | NA                        |
| <a href="#">FirePro 2260</a>                   | 112                                  | 2118                   | NA                                 | NA                        |
| <a href="#">GeForce 6800</a>                   | 112                                  | 2120                   | <a href="#">0.20</a>               | <a href="#">\$559.29*</a> |
| <a href="#">GeForce 8600M GT</a>               | 112                                  | 2119                   | <a href="#">1.04</a>               | <a href="#">\$108.10*</a> |
| <a href="#">Intel HD Modded</a>                | 112                                  | 2122                   | NA                                 | NA                        |
| <a href="#">Radeon X1950 Pro</a>               | 112                                  | 2117                   | NA                                 | NA                        |
| <a href="#">Sapphire RADEON X800 GT</a>        | 112                                  | 2121                   | NA                                 | NA                        |
| <a href="#">Quadro FX 560</a>                  | 113                                  | 2116                   | <a href="#">0.76</a>               | <a href="#">\$150.25*</a> |
| <a href="#">FireGL V5200</a>                   | 114                                  | 2114                   | <a href="#">0.86</a>               | <a href="#">\$133.40*</a> |
| <a href="#">GeForce Go 7800</a>                | 114                                  | 2113                   | NA                                 | NA                        |
| <a href="#">Radeon HD 2400 Pro</a>             | 114                                  | 2115                   | NA                                 | NA                        |
| <a href="#">RADEON X800 GTO</a>                | 114                                  | 2112                   | NA                                 | NA                        |
| <a href="#">GeForce 315M</a>                   | 115                                  | 2111                   | NA                                 | NA                        |
| <a href="#">GeForce 8300 GS</a>                | 115                                  | 2110                   | NA                                 | NA                        |
| <a href="#">Radeon HD 3470</a>                 | 115                                  | 2107                   | <a href="#">1.06</a>               | <a href="#">\$109.65*</a> |
| <a href="#">Radeon HD 4330</a>                 | 115                                  | 2109                   | NA                                 | NA                        |

| CPU Benchmarks |  |  |  |  | Video Card Benchmarks                |                        | Hard Drive Benchmarks              |  | Memory Benchmarks |  | PC Benchmarks |  | Software Marketshare |  | Database Benchmarks |  | Android Benchmarks |  | iOS Benchmarks |  |
|----------------|--|--|--|--|--------------------------------------|------------------------|------------------------------------|--|-------------------|--|---------------|--|----------------------|--|---------------------|--|--------------------|--|----------------|--|
| Videocard Name |  |  |  |  | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) |  | Price (USD)       |  |               |  |                      |  |                     |  |                    |  |                |  |

|                                                |                                      |                        |                                    |                           |
|------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <u>NVS 3100M</u>                               | 116                                  | 2105                   | NA                                 | NA                        |
| <u>PHDGD Quantic C3</u>                        | 116                                  | 2103                   | NA                                 | NA                        |
| <u>Radeon X1700 Targa Edition</u>              | 116                                  | 2104                   | NA                                 | NA                        |
| <u>FireMV 2260</u>                             | 117                                  | 2101                   | <a href="#">1.33</a>               | <a href="#">\$88.08*</a>  |
| <u>Mobile Intel 45 Express-Chipsatzfamilie</u> | 117                                  | 2102                   | NA                                 | NA                        |
| <u>GeForce 505</u>                             | 118                                  | 2100                   | <a href="#">1.03</a>               | <a href="#">\$115.06*</a> |
| <u>Qualcomm Adreno 540 GPU</u>                 | 118                                  | 2099                   | NA                                 | NA                        |
| <u>Radeon HD 2400 XT</u>                       | 118                                  | 2097                   | NA                                 | NA                        |
| <u>RV530 PRO</u>                               | 118                                  | 2098                   | NA                                 | NA                        |
| <u>GeForce 210</u>                             | 119                                  | 2096                   | <a href="#">2.20</a>               | <a href="#">\$54.15*</a>  |
| <u>GeForce 405</u>                             | 119                                  | 2094                   | <a href="#">4.85</a>               | <a href="#">\$24.64*</a>  |
| <u>GeForce G210</u>                            | 119                                  | 2095                   | <a href="#">0.98</a>               | <a href="#">\$122.12*</a> |
| <u>Extreme AX850 PRO</u>                       | 120                                  | 2093                   | NA                                 | NA                        |
| <u>NVS 300</u>                                 | 120                                  | 2091                   | <a href="#">1.92</a>               | <a href="#">\$62.97*</a>  |
| <u>Quadro FX 380M</u>                          | 120                                  | 2089                   | NA                                 | NA                        |
| <u>Quadro NVS 420</u>                          | 120                                  | 2092                   | <a href="#">0.80</a>               | <a href="#">\$150.00*</a> |
| <u>Radeon HD 2400</u>                          | 120                                  | 2090                   | <a href="#">1.37</a>               | <a href="#">\$88.20*</a>  |
| <u>GeForce 310M</u>                            | 121                                  | 2088                   | NA                                 | NA                        |
| <u>GeForce 9500M G</u>                         | 121                                  | 2087                   | NA                                 | NA                        |
| <u>GeForce GT 220M</u>                         | 121                                  | 2086                   | NA                                 | NA                        |
| <u>Radeon HD 4250</u>                          | 122                                  | 2084                   | NA                                 | NA                        |
| <u>Radeon HD 6310</u>                          | 122                                  | 2085                   | NA                                 | NA                        |
| <u>GeForce 6800 XT</u>                         | 123                                  | 2082                   | NA                                 | NA                        |
| <u>GeForce 8600 GT</u>                         | 123                                  | 2080                   | <a href="#">0.63</a>               | <a href="#">\$196.00*</a> |
| <u>Intel Haswell HD - GT1</u>                  | 123                                  | 2083                   | NA                                 | NA                        |
| <u>Radeon HD 7290M</u>                         | 123                                  | 2081                   | NA                                 | NA                        |
| <u>GeForce 8700M GT</u>                        | 124                                  | 2078                   | NA                                 | NA                        |
| <u>Quadro FX 1400</u>                          | 124                                  | 2079                   | <a href="#">0.51</a>               | <a href="#">\$245.01*</a> |
| <u>Seria Mobility Radeon HD 3400</u>           | 124                                  | 2077                   | NA                                 | NA                        |
| Videocard Name                                 | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <u>GeForce 205</u>                             | 126                                  | 2076                   | NA                                 | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                |     |      |                      |                             |
|------------------------------------------------|-----|------|----------------------|-----------------------------|
| <a href="#">All-in-Wonder X1900</a>            | 127 | 2072 | NA                   | NA                          |
| <a href="#">GeForce Go 7600</a>                | 127 | 2071 | NA                   | NA                          |
| <a href="#">Qualcomm Adreno 618 GPU</a>        | 127 | 2073 | NA                   | NA                          |
| <a href="#">FireGL V7300</a>                   | 128 | 2068 | <a href="#">0.11</a> | <a href="#">\$1,189.99*</a> |
| <a href="#">GeForce 9300 / nForce 730i</a>     | 128 | 2067 | NA                   | NA                          |
| <a href="#">GeForce G210M</a>                  | 128 | 2070 | NA                   | NA                          |
| <a href="#">Radeon HD 7310</a>                 | 128 | 2069 | NA                   | NA                          |
| <a href="#">GeForce 9200M GS</a>               | 129 | 2066 | NA                   | NA                          |
| <a href="#">RADEON X800 SE</a>                 | 129 | 2065 | NA                   | NA                          |
| <a href="#">GeForce 9600M GS</a>               | 130 | 2063 | NA                   | NA                          |
| <a href="#">MOBILITY RADEON X1800</a>          | 130 | 2064 | NA                   | NA                          |
| <a href="#">VIA/S3G C-645/640 GPU</a>          | 132 | 2062 | NA                   | NA                          |
| <a href="#">GeForce G105M</a>                  | 133 | 2059 | NA                   | NA                          |
| <a href="#">Intel G41 Express Chipset</a>      | 133 | 2060 | NA                   | NA                          |
| <a href="#">Intel G45/G43 Express Chipset</a>  | 133 | 2061 | NA                   | NA                          |
| <a href="#">EAH5450</a>                        | 134 | 2056 | <a href="#">1.22</a> | <a href="#">\$109.99*</a>   |
| <a href="#">GeForce 7650 GS</a>                | 134 | 2058 | NA                   | NA                          |
| <a href="#">GeForce 9500M GS</a>               | 134 | 2057 | NA                   | NA                          |
| <a href="#">GeForce 9800 GT 1024MB</a>         | 134 | 2055 | NA                   | NA                          |
| <a href="#">Mobility Radeon X1900</a>          | 134 | 2054 | NA                   | NA                          |
| <a href="#">Mobility Radeon HD 4330</a>        | 135 | 2053 | NA                   | NA                          |
| <a href="#">Quadro NVS 160M</a>                | 135 | 2052 | NA                   | NA                          |
| <a href="#">GeForce G200</a>                   | 136 | 2051 | NA                   | NA                          |
| <a href="#">Radeon HD 5450</a>                 | 136 | 2050 | <a href="#">1.96</a> | <a href="#">\$69.48</a>     |
| <a href="#">GeForce 9650M GT</a>               | 137 | 2048 | <a href="#">1.17</a> | <a href="#">\$117.30*</a>   |
| <a href="#">GeForce Go 6800 Ultra</a>          | 137 | 2047 | NA                   | NA                          |
| <a href="#">Radeon X1900 CrossFire Edition</a> | 137 | 2049 | NA                   | NA                          |
| <a href="#">GeForce 6800 Ultra</a>             | 138 | 2043 | NA                   | NA                          |
| <a href="#">GeForce 7300 GT</a>                | 138 | 2046 | <a href="#">0.92</a> | <a href="#">\$149.99*</a>   |
| <a href="#">Intel B43 Express Chipset</a>      | 138 | 2045 | NA                   | NA                          |
| <a href="#">Radeon HD 8180</a>                 | 138 | 2044 | NA                   | NA                          |
| <a href="#">GeForce 9600M GT</a>               | 139 | 2041 | <a href="#">1.79</a> | <a href="#">\$78.20*</a>    |

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

| Videocard Name                          | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">GeForce 310</a>             | 140                                           | 2039                         | <a href="#">1.29</a>                        | <a href="#">\$108.35*</a> |
| <a href="#">nForce 760i SLI</a>         | 140                                           | 2038                         | NA                                          | NA                        |
| <a href="#">Radeon HD 4290</a>          | 140                                           | 2035                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6290M</a>         | 140                                           | 2037                         | NA                                          | NA                        |
| <a href="#">RADEON HD 6350</a>          | 140                                           | 2034                         | <a href="#">2.39</a>                        | <a href="#">\$59.00*</a>  |
| <a href="#">Radeon X1800 GTO</a>        | 140                                           | 2036                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 3650</a> | 141                                           | 2033                         | <a href="#">1.92</a>                        | <a href="#">\$73.53*</a>  |
| <a href="#">FirePro 2270</a>            | 142                                           | 2031                         | <a href="#">1.06</a>                        | <a href="#">\$134.00*</a> |
| <a href="#">GeForce 6600 GT</a>         | 142                                           | 2029                         | <a href="#">2.20</a>                        | <a href="#">\$64.95*</a>  |
| <a href="#">GeForce 6800 GT</a>         | 142                                           | 2032                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 4570</a> | 142                                           | 2030                         | <a href="#">1.88</a>                        | <a href="#">\$75.90*</a>  |
| <a href="#">GeForce 9200M GE</a>        | 143                                           | 2028                         | NA                                          | NA                        |
| Videocard Name                          | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Quadro FX 380 LP</a>        | 144                                           | 2026                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6300M</a>         | 144                                           | 2027                         | NA                                          | NA                        |
| <a href="#">GeForce GT 130M</a>         | 145                                           | 2025                         | NA                                          | NA                        |
| <a href="#">Radeon HD 4350</a>          | 145                                           | 2024                         | <a href="#">2.86</a>                        | <a href="#">\$50.99*</a>  |
| <a href="#">Radeon X1900 GT</a>         | 145                                           | 2023                         | NA                                          | NA                        |
| <a href="#">S3 5400EW</a>               | 146                                           | 2022                         | NA                                          | NA                        |
| <a href="#">GeForce Go 7700</a>         | 147                                           | 2019                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6320</a>          | 147                                           | 2020                         | <a href="#">0.27</a>                        | <a href="#">\$554.99*</a> |
| <a href="#">Radeon R5 220</a>           | 147                                           | 2018                         | <a href="#">1.73</a>                        | <a href="#">\$85.26*</a>  |
| <a href="#">ZX Chrome 645/640 GPU</a>   | 147                                           | 2021                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 4350</a> | 148                                           | 2017                         | NA                                          | NA                        |
| <a href="#">Quadro 400</a>              | 148                                           | 2016                         | <a href="#">0.70</a>                        | <a href="#">\$211.00*</a> |
| <a href="#">Quadro FX 3450</a>          | 148                                           | 2015                         | <a href="#">1.24</a>                        | <a href="#">\$119.99*</a> |
| <a href="#">GeForce 8500 GT</a>         | 149                                           | 2014                         | NA                                          | NA                        |
| <a href="#">GeForce 305M</a>            | 150                                           | 2011                         | NA                                          | NA                        |
| <a href="#">GeForce GT 120M</a>         | 150                                           | 2010                         | NA                                          | NA                        |
| <a href="#">Intel Q965/Q963 Express</a> | 150                                           | 2012                         | NA                                          | NA                        |
| <a href="#">Radeon HD 3650 AGP</a>      | 150                                           | 2013                         | <a href="#">0.81</a>                        | <a href="#">\$185.00*</a> |

| Videocard Name                                      | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">GeForce 8200</a>                        | 155                                           | 2005                         | NA                                          | NA                        |
| <a href="#">GeForce 8400 GS</a>                     | 155                                           | 2007                         | <a href="#">1.81</a>                        | <a href="#">\$85.97*</a>  |
| <a href="#">Radeon HD 4300/4500 Serisi</a>          | 155                                           | 2006                         | NA                                          | NA                        |
| <a href="#">Quadro FX 380</a>                       | 157                                           | 2004                         | <a href="#">2.17</a>                        | <a href="#">\$72.50*</a>  |
| <a href="#">GeForce 7600 GS</a>                     | 158                                           | 2003                         | <a href="#">1.34</a>                        | <a href="#">\$118.62*</a> |
| <a href="#">Quadro FX 580</a>                       | 162                                           | 2002                         | <a href="#">1.25</a>                        | <a href="#">\$130.00*</a> |
| <a href="#">Radeon HD 8350</a>                      | 162                                           | 2001                         | <a href="#">1.63</a>                        | <a href="#">\$99.81*</a>  |
| <a href="#">Radeon HD 3450</a>                      | 163                                           | 2000                         | <a href="#">1.83</a>                        | <a href="#">\$89.00*</a>  |
| <a href="#">GeForce GT 120</a>                      | 165                                           | 1997                         | <a href="#">5.53</a>                        | <a href="#">\$29.99*</a>  |
| <a href="#">Intel HD manual-gen9_2015-133271</a>    | 165                                           | 1998                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7350</a>                      | 165                                           | 1999                         | NA                                          | NA                        |
| <a href="#">GeForce 9500 GT</a>                     | 166                                           | 1996                         | <a href="#">1.93</a>                        | <a href="#">\$85.99*</a>  |
| <a href="#">Radeon HD 7310M</a>                     | 166                                           | 1995                         | NA                                          | NA                        |
| <a href="#">GeForce G102M</a>                       | 167                                           | 1994                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 2600</a>             | 167                                           | 1993                         | NA                                          | NA                        |
| <a href="#">Radeon HD 3670</a>                      | 168                                           | 1992                         | NA                                          | NA                        |
| <a href="#">GeForce 9200</a>                        | 169                                           | 1990                         | NA                                          | NA                        |
| <a href="#">GeForce 9400 GT</a>                     | 169                                           | 1989                         | <a href="#">2.61</a>                        | <a href="#">\$64.91*</a>  |
| <a href="#">GeForce GT 325M</a>                     | 169                                           | 1987                         | NA                                          | NA                        |
| <a href="#">Intel 2nd Generation SandyBridge HD</a> | 169                                           | 1991                         | NA                                          | NA                        |
| <a href="#">Quadro FX 1500</a>                      | 169                                           | 1988                         | <a href="#">0.36</a>                        | <a href="#">\$467.00</a>  |
| <a href="#">FirePro 2460</a>                        | 170                                           | 1986                         | <a href="#">2.03</a>                        | <a href="#">\$83.99*</a>  |
| <a href="#">Radeon HDG 4670</a>                     | 170                                           | 1985                         | NA                                          | NA                        |
| <a href="#">GeForce 8600 GTS</a>                    | 171                                           | 1983                         | <a href="#">0.71</a>                        | <a href="#">\$241.99*</a> |
| <a href="#">Quadro FX 1500M</a>                     | 171                                           | 1984                         | NA                                          | NA                        |
| <a href="#">Quadro FX 1700M</a>                     | 172                                           | 1982                         | NA                                          | NA                        |
| <a href="#">ZX C-1190</a>                           | 172                                           | 1981                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 530v</a>             | 174                                           | 1979                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7310 - Carte graphique</a>    | 174                                           | 1980                         | NA                                          | NA                        |
| Videocard Name                                      | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">GeForce Go 7900 GS</a>                  | 176                                           | 1978                         | NA                                          | NA                        |

|                   |                          | Videocard Name           |                      |                  |                         | Passmark<br>G3D Mark<br>(higher is better) | Rank<br>(lower is better) | Videocard<br>Value<br>(higher is better) | Price<br>(USD) |
|-------------------|--------------------------|--------------------------|----------------------|------------------|-------------------------|--------------------------------------------|---------------------------|------------------------------------------|----------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare | Database<br>Benchmarks                     | Android<br>Benchmarks     | iOS<br>Benchmarks                        |                |

|                                                          |     |      |                      |                           |
|----------------------------------------------------------|-----|------|----------------------|---------------------------|
| <a href="#">FireGL V3600</a>                             | 179 | 1973 | <a href="#">1.12</a> | <a href="#">\$160.99*</a> |
| <a href="#">Quadro FX 3450/4000 SDI</a>                  | 179 | 1974 | NA                   | NA                        |
| <a href="#">Radeon HD 6230</a>                           | 179 | 1975 | NA                   | NA                        |
| <a href="#">Barco MXRT 7100</a>                          | 180 | 1972 | NA                   | NA                        |
| <a href="#">Radeon HD 7310G</a>                          | 180 | 1971 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 5430</a>                  | 181 | 1970 | NA                   | NA                        |
| <a href="#">GeForce G100</a>                             | 184 | 1969 | <a href="#">9.24</a> | <a href="#">\$19.99*</a>  |
| <a href="#">Mobility Radeon HD 540v</a>                  | 188 | 1968 | NA                   | NA                        |
| <a href="#">Radeon HD 8210</a>                           | 190 | 1967 | NA                   | NA                        |
| <a href="#">GeForce 6800 GS</a>                          | 191 | 1964 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 2600 XT</a>               | 191 | 1963 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 4550</a>                  | 191 | 1966 | NA                   | NA                        |
| <a href="#">Quadro FX 1700</a>                           | 191 | 1965 | <a href="#">0.55</a> | <a href="#">\$350.14*</a> |
| <a href="#">Radeon HD 6430M</a>                          | 192 | 1962 | NA                   | NA                        |
| <a href="#">Intel Infoshock HD</a>                       | 193 | 1960 | NA                   | NA                        |
| <a href="#">Radeon HD 8210E</a>                          | 193 | 1961 | NA                   | NA                        |
| <a href="#">Radeon HD 7340G</a>                          | 196 | 1959 | NA                   | NA                        |
| <a href="#">Radeon HD 6450</a>                           | 197 | 1958 | <a href="#">2.22</a> | <a href="#">\$89.00*</a>  |
| <a href="#">GeForce 315</a>                              | 198 | 1956 | <a href="#">6.02</a> | <a href="#">\$32.99*</a>  |
| <a href="#">Radeon HD 6320M</a>                          | 198 | 1957 | NA                   | NA                        |
| <a href="#">Mobility Radeon HD 545v</a>                  | 199 | 1954 | NA                   | NA                        |
| <a href="#">NVS 5100M</a>                                | 199 | 1953 | NA                   | NA                        |
| <a href="#">RADEON HD7450</a>                            | 199 | 1955 | <a href="#">8.95</a> | <a href="#">\$22.25*</a>  |
| <a href="#">Radeon HD 6380G</a>                          | 200 | 1952 | <a href="#">0.50</a> | <a href="#">\$399.99*</a> |
| <a href="#">GeForce 7950 GX2</a>                         | 201 | 1951 | <a href="#">3.67</a> | <a href="#">\$54.99*</a>  |
| <a href="#">Intel Q45/Q43 Express Chipset</a>            | 202 | 1950 | NA                   | NA                        |
| <a href="#">Barco MXRT 1450</a>                          | 205 | 1948 | NA                   | NA                        |
| <a href="#">Intel 2nd Generation SandyBridge HD 3000</a> | 205 | 1949 | NA                   | NA                        |
| <a href="#">Radeon HD 4650 AGP</a>                       | 207 | 1947 | NA                   | NA                        |
| <a href="#">GeForce 9700M GT</a>                         | 208 | 1945 | NA                   | NA                        |
| <a href="#">Quadro NVS 320M</a>                          | 208 | 1946 | NA                   | NA                        |
| <a href="#">Radeon R2E</a>                               | 208 | 1944 | NA                   | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|-----------------------|--------------------------------------|------------------------|------------------------------------|----------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)          |                     |                    |                |

|                                                   |                                      |                        |                                    |                           |
|---------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <u>GeForce Go 7600 GT</u>                         | 210                                  | 1941                   | NA                                 | NA                        |
| <u>Radeon HD 2600 PRO</u>                         | 211                                  | 1940                   | <a href="#">1.12</a>               | <a href="#">\$188.44*</a> |
| <u>Radeon HD 8250</u>                             | 212                                  | 1939                   | NA                                 | NA                        |
| <u>GeForce GT 240M</u>                            | 213                                  | 1937                   | NA                                 | NA                        |
| <u>Intel HD 2000</u>                              | 213                                  | 1938                   | NA                                 | NA                        |
| <u>Mobility Radeon HD 5450</u>                    | 214                                  | 1936                   | NA                                 | NA                        |
| <u>GeForce 9500 GS</u>                            | 215                                  | 1934                   | NA                                 | NA                        |
| <u>Mobility Radeon. HD 5470</u>                   | 215                                  | 1935                   | NA                                 | NA                        |
| <u>GeForce GT 330M</u>                            | 216                                  | 1933                   | NA                                 | NA                        |
| <u>Radeon HD 6320 Graphic</u>                     | 216                                  | 1932                   | NA                                 | NA                        |
| <u>GeForce GT 230M</u>                            | 217                                  | 1931                   | NA                                 | NA                        |
| <u>Quadro FX 2500M</u>                            | 217                                  | 1930                   | <a href="#">12.45</a>              | <a href="#">\$17.50*</a>  |
| Videocard Name                                    | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <u>GeForce GT 220</u>                             | 219                                  | 1928                   | <a href="#">5.49</a>               | <a href="#">\$39.99*</a>  |
| <u>Mobility FireGL V5725</u>                      | 219                                  | 1929                   | NA                                 | NA                        |
| <u>A6 Micro-6500T Quad-Core APU with RadeonR4</u> | 220                                  | 1926                   | NA                                 | NA                        |
| <u>Quadro FX 570</u>                              | 220                                  | 1927                   | <a href="#">1.92</a>               | <a href="#">\$115.00*</a> |
| <u>Quadro FX 770M</u>                             | 220                                  | 1925                   | <a href="#">0.42</a>               | <a href="#">\$527.00*</a> |
| <u>Radeon HD 7340M</u>                            | 221                                  | 1924                   | NA                                 | NA                        |
| <u>Radeon R5 230</u>                              | 221                                  | 1923                   | <a href="#">2.74</a>               | <a href="#">\$81.10*</a>  |
| <u>Intel G965 Express</u>                         | 222                                  | 1922                   | NA                                 | NA                        |
| <u>GT 430</u>                                     | 223                                  | 1921                   | <a href="#">1.56</a>               | <a href="#">\$142.88*</a> |
| <u>Quadro FX 880M</u>                             | 223                                  | 1920                   | NA                                 | NA                        |
| <u>GeForce 7600 GT</u>                            | 224                                  | 1917                   | <a href="#">1.13</a>               | <a href="#">\$199.00*</a> |
| <u>Radeon HD 7450</u>                             | 224                                  | 1918                   | <a href="#">4.50</a>               | <a href="#">\$49.99*</a>  |
| <u>Radeon R3E</u>                                 | 224                                  | 1919                   | NA                                 | NA                        |
| <u>Radeon HD 6470M</u>                            | 226                                  | 1916                   | <a href="#">0.40</a>               | <a href="#">\$569.99*</a> |
| <u>Quadro FX 4500</u>                             | 227                                  | 1915                   | <a href="#">1.34</a>               | <a href="#">\$169.00*</a> |
| <u>Quadro NVS 290</u>                             | 228                                  | 1914                   | <a href="#">3.86</a>               | <a href="#">\$59.00*</a>  |
| <u>Quadro FX 1600M</u>                            | 231                                  | 1913                   | <a href="#">1.54</a>               | <a href="#">\$149.90*</a> |
| <u>Radeon E6465</u>                               | 231                                  | 1912                   | NA                                 | NA                        |

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

| Videocard Name                      | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
|-------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| <u>Mobility Radeon HD 5470</u>      | 236                                           | 1908                         | NA                                          | NA                          |
| <u>Quadro FX 4500 X2</u>            | 236                                           | 1909                         | NA                                          | NA                          |
| <u>Radeon HD 6410D</u>              | 236                                           | 1907                         | NA                                          | NA                          |
| <u>Quadro NVS 510M</u>              | 238                                           | 1906                         | NA                                          | NA                          |
| <u>Radeon HD4650</u>                | 239                                           | 1905                         | <a href="#">1.57</a>                        | <a href="#">\$152.90*</a>   |
| <u>Quadro FX 5500</u>               | 242                                           | 1904                         | <a href="#">0.12</a>                        | <a href="#">\$1,999.00*</a> |
| <u>Radeon HD 4650</u>               | 242                                           | 1903                         | <a href="#">3.47</a>                        | <a href="#">\$69.99*</a>    |
| <u>GeForce 7800 GT</u>              | 244                                           | 1902                         | <a href="#">3.05</a>                        | <a href="#">\$80.00*</a>    |
| <u>Mobile Intel HD</u>              | 244                                           | 1901                         | <a href="#">0.51</a>                        | <a href="#">\$479.98*</a>   |
| <u>Radeon HD 8240</u>               | 246                                           | 1900                         | NA                                          | NA                          |
| <u>Radeon HD 8470</u>               | 246                                           | 1899                         | NA                                          | NA                          |
| <u>GeForce 7900 GT/GTO</u>          | 247                                           | 1898                         | NA                                          | NA                          |
| <u>Radeon R2</u>                    | 248                                           | 1897                         | NA                                          | NA                          |
| <u>Radeon HD 7640G + 8600M Dual</u> | 249                                           | 1896                         | NA                                          | NA                          |
| <u>GeForce GT 415</u>               | 251                                           | 1895                         | NA                                          | NA                          |
| <u>GeForce 7900 GS</u>              | 253                                           | 1894                         | NA                                          | NA                          |
| <u>GeForce 510</u>                  | 254                                           | 1893                         | <a href="#">3.64</a>                        | <a href="#">\$69.99*</a>    |
| <u>NVS 310</u>                      | 255                                           | 1891                         | <a href="#">4.12</a>                        | <a href="#">\$62.06*</a>    |
| <u>Radeon HD 6370D</u>              | 255                                           | 1892                         | NA                                          | NA                          |
| <u>Radeon HD 6480G</u>              | 256                                           | 1889                         | NA                                          | NA                          |
| <u>Radeon HD 8280E</u>              | 256                                           | 1890                         | NA                                          | NA                          |
| <u>GeForce 7900 GT</u>              | 258                                           | 1888                         | <a href="#">1.30</a>                        | <a href="#">\$199.00*</a>   |
| <u>Intel HD 3000</u>                | 259                                           | 1887                         | <a href="#">0.27</a>                        | <a href="#">\$945.00*</a>   |
| <u>Quadro FX 3500</u>               | 259                                           | 1886                         | <a href="#">3.77</a>                        | <a href="#">\$68.98*</a>    |
| <u>Radeon HD 6450A</u>              | 260                                           | 1885                         | NA                                          | NA                          |
| <u>Radeon HD 8280</u>               | 260                                           | 1884                         | NA                                          | NA                          |
| <u>Radeon HD 8330E</u>              | 262                                           | 1883                         | NA                                          | NA                          |
| <u>GeForce 410M</u>                 | 263                                           | 1881                         | NA                                          | NA                          |
| <u>GeForce Go 7950 GTX</u>          | 263                                           | 1880                         | NA                                          | NA                          |
| Videocard Name                      | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <u>Radeon HD 8490</u>               | 263                                           | 1882                         | <a href="#">2.93</a>                        | <a href="#">\$89.99*</a>    |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                           |     |      |                      |                           |
|-------------------------------------------|-----|------|----------------------|---------------------------|
| <u>Mobility Radeon HD 550v</u>            | 266 | 1877 | NA                   | NA                        |
| <u>Radeon HD 7400G</u>                    | 267 | 1876 | NA                   | NA                        |
| <u>Radeon HD 8330</u>                     | 267 | 1875 | NA                   | NA                        |
| <u>Radeon HD 5470</u>                     | 268 | 1874 | NA                   | NA                        |
| <u>Radeon HD 8280G</u>                    | 269 | 1873 | NA                   | NA                        |
| <u>GeForce 9650M GS</u>                   | 270 | 1872 | NA                   | NA                        |
| <u>GeForce Go 7900 GTX</u>                | 270 | 1871 | NA                   | NA                        |
| <u>Radeon HD 6370M</u>                    | 275 | 1869 | NA                   | NA                        |
| <u>Radeon HD 8400E</u>                    | 275 | 1870 | NA                   | NA                        |
| <u>Radeon R5 235X</u>                     | 277 | 1868 | NA                   | NA                        |
| <u>GeForce 9700M GTS</u>                  | 278 | 1867 | NA                   | NA                        |
| <u>Radeon HD 7480D</u>                    | 279 | 1866 | NA                   | NA                        |
| <u>GeForce 9600 GS</u>                    | 281 | 1864 | NA                   | NA                        |
| <u>Intel HD P3000</u>                     | 281 | 1865 | NA                   | NA                        |
| <u>Qualcomm Adreno 630 GPU</u>            | 282 | 1862 | NA                   | NA                        |
| <u>Radeon HD 2600 XT</u>                  | 282 | 1863 | <a href="#">1.78</a> | <a href="#">\$159.00*</a> |
| <u>GeForce GT 520MX</u>                   | 284 | 1860 | NA                   | NA                        |
| <u>Mobility Radeon HD 5165</u>            | 284 | 1861 | NA                   | NA                        |
| <u>GeForce GT 415M</u>                    | 286 | 1859 | NA                   | NA                        |
| <u>GeForce 7950 Xtreme</u>                | 287 | 1857 | NA                   | NA                        |
| <u>GeForce GT 520M</u>                    | 287 | 1858 | <a href="#">9.58</a> | <a href="#">\$29.95*</a>  |
| <u>Radeon HD 7450A</u>                    | 288 | 1856 | NA                   | NA                        |
| <u>Radeon HD 7470</u>                     | 289 | 1855 | <a href="#">3.55</a> | <a href="#">\$81.37*</a>  |
| <u>GeForce 7800 GTX</u>                   | 290 | 1853 | <a href="#">4.06</a> | <a href="#">\$71.60*</a>  |
| <u>NVS 4200M</u>                          | 290 | 1854 | <a href="#">0.73</a> | <a href="#">\$399.00*</a> |
| <u>GeForce 610M</u>                       | 292 | 1852 | NA                   | NA                        |
| <u>Radeon HD 2900 GT</u>                  | 292 | 1851 | NA                   | NA                        |
| <u>GeForce 9600M GT / GeForce GT 220M</u> | 293 | 1850 | NA                   | NA                        |
| <u>GRID K120Q</u>                         | 293 | 1849 | NA                   | NA                        |
| <u>Intel HD 500</u>                       | 298 | 1848 | NA                   | NA                        |
| <u>Radeon HD 6520G</u>                    | 299 | 1847 | NA                   | NA                        |
| <u>Radeon R1E</u>                         | 301 | 1846 | NA                   | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                    |                                      |                        |                                    |                           |
|----------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Radeon R3</a>                          | 307                                  | 1843                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7420G</a>                    | 308                                  | 1842                   | NA                                 | NA                        |
| <a href="#">Radeon R5E</a>                         | 309                                  | 1841                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7520G + 8600/8700M Dual</a>  | 311                                  | 1840                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7520G</a>                    | 312                                  | 1839                   | NA                                 | NA                        |
| <a href="#">Radeon HD 8370D</a>                    | 314                                  | 1838                   | NA                                 | NA                        |
| <a href="#">GeForce GT 520</a>                     | 316                                  | 1836                   | <a href="#">1.04</a>               | <a href="#">\$304.00*</a> |
| <a href="#">GeForce GT 610</a>                     | 316                                  | 1837                   | <a href="#">2.26</a>               | <a href="#">\$139.99*</a> |
| <a href="#">NVS 315</a>                            | 317                                  | 1835                   | <a href="#">4.54</a>               | <a href="#">\$69.99*</a>  |
| <a href="#">GeForce 605</a>                        | 318                                  | 1833                   | <a href="#">2.33</a>               | <a href="#">\$136.83*</a> |
| <a href="#">Mobility Radeon HD 560v</a>            | 318                                  | 1834                   | NA                                 | NA                        |
| <a href="#">GeForce 240M GT</a>                    | 319                                  | 1831                   | NA                                 | NA                        |
| Videocard Name                                     | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">Intel UHD Graphics 600</a>             | 319                                  | 1832                   | NA                                 | NA                        |
| <a href="#">FirePro V3800</a>                      | 320                                  | 1829                   | <a href="#">2.57</a>               | <a href="#">\$124.99*</a> |
| <a href="#">RADEON HD6370D</a>                     | 320                                  | 1830                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7500G</a>                    | 321                                  | 1828                   | NA                                 | NA                        |
| <a href="#">GeForce GT 230</a>                     | 323                                  | 1827                   | <a href="#">7.35</a>               | <a href="#">\$43.99*</a>  |
| <a href="#">Radeon E6460</a>                       | 323                                  | 1826                   | NA                                 | NA                        |
| <a href="#">GeForce GT 120 / 9500 GT</a>           | 324                                  | 1825                   | NA                                 | NA                        |
| <a href="#">GeForce 9600 GSO</a>                   | 327                                  | 1824                   | <a href="#">3.05</a>               | <a href="#">\$107.39*</a> |
| <a href="#">Radeon HD 7600G + HD 7400M Dual</a>    | 328                                  | 1823                   | NA                                 | NA                        |
| <a href="#">GeForce 9600 GSO 512</a>               | 329                                  | 1820                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7450M</a>                    | 329                                  | 1822                   | NA                                 | NA                        |
| <a href="#">ZX C-1080</a>                          | 329                                  | 1821                   | NA                                 | NA                        |
| <a href="#">GeForce 8800 GS</a>                    | 330                                  | 1818                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7600G</a>                    | 330                                  | 1819                   | NA                                 | NA                        |
| <a href="#">Radeon R5 310</a>                      | 331                                  | 1817                   | <a href="#">0.66</a>               | <a href="#">\$499.00*</a> |
| <a href="#">Radeon HD 7540D</a>                    | 332                                  | 1816                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7600G + 8500M/8700M Dual</a> | 333                                  | 1815                   | NA                                 | NA                        |
| <a href="#">FirePro RG220</a>                      | 335                                  | 1814                   | <a href="#">0.52</a>               | <a href="#">\$650.18*</a> |

CPU Benchmarks

Video Card Benchmarks

Hard Drive Benchmarks

Memory Benchmarks

PC Benchmarks

Software Marketshare

Database Benchmarks

Android Benchmarks

iOS Benchmarks

| Videocard Name                                                     | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|--------------------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <a href="#">Radeon R4</a>                                          | 337                                  | 1812                   | <a href="#">0.85</a>               | <a href="#">\$396.99*</a>   |
| <a href="#">Radeon HD 8570D + HD 8470 Dual</a>                     | 338                                  | 1810                   | NA                                 | NA                          |
| <a href="#">Radeon HD 7660D + HD 7400 Dual</a>                     | 339                                  | 1809                   | NA                                 | NA                          |
| <a href="#">Radeon HD 8310E</a>                                    | 340                                  | 1808                   | NA                                 | NA                          |
| <a href="#">FireGL V5600</a>                                       | 341                                  | 1807                   | <a href="#">1.52</a>               | <a href="#">\$225.00*</a>   |
| <a href="#">FirePro 3D V3750</a>                                   | 341                                  | 1805                   | <a href="#">6.71</a>               | <a href="#">\$50.88*</a>    |
| <a href="#">Radeon HD 6620G</a>                                    | 341                                  | 1806                   | NA                                 | NA                          |
| <a href="#">Radeon HD 8450G</a>                                    | 341                                  | 1804                   | NA                                 | NA                          |
| <a href="#">GeForce GT 705</a>                                     | 343                                  | 1803                   | <a href="#">1.16</a>               | <a href="#">\$296.76*</a>   |
| <a href="#">GeForce 7950 GT</a>                                    | 347                                  | 1801                   | <a href="#">1.36</a>               | <a href="#">\$254.80*</a>   |
| <a href="#">Intel HD 4000</a>                                      | 347                                  | 1802                   | <a href="#">0.22</a>               | <a href="#">\$1,592.95*</a> |
| <a href="#">Radeon HD 7580D</a>                                    | 350                                  | 1800                   | NA                                 | NA                          |
| <a href="#">GeForce GT 625</a>                                     | 352                                  | 1799                   | NA                                 | NA                          |
| <a href="#">Mobility Radeon HD 565v</a>                            | 353                                  | 1798                   | NA                                 | NA                          |
| <a href="#">Radeon HD 6480M</a>                                    | 353                                  | 1797                   | NA                                 | NA                          |
| <a href="#">Radeon HD 7500G + HD 7500M/7600M Dual</a>              | 355                                  | 1796                   | NA                                 | NA                          |
| <a href="#">GeForce 9800M GTS</a>                                  | 356                                  | 1795                   | NA                                 | NA                          |
| <a href="#">Intel HD 505</a>                                       | 361                                  | 1794                   | NA                                 | NA                          |
| <a href="#">Radeon HD 7620G</a>                                    | 363                                  | 1792                   | NA                                 | NA                          |
| <a href="#">Radeon HD 7660G + HD 8600M Dual</a>                    | 363                                  | 1793                   | NA                                 | NA                          |
| <a href="#">Radeon HD 7520G N HD 7520G + HD 7600M N HD 7600M D</a> | 364                                  | 1791                   | NA                                 | NA                          |
| <a href="#">Mobility Radeon HD 3850</a>                            | 365                                  | 1790                   | NA                                 | NA                          |
| <a href="#">Radeon HD 8510G</a>                                    | 365                                  | 1788                   | NA                                 | NA                          |
| <a href="#">Radeon HD4670</a>                                      | 365                                  | 1789                   | NA                                 | NA                          |
| <a href="#">Matrox Millennium P690 PCIe x16</a>                    | 366                                  | 1787                   | NA                                 | NA                          |
| <a href="#">Quadro FX 2700M</a>                                    | 366                                  | 1786                   | <a href="#">3.67</a>               | <a href="#">\$99.95*</a>    |
| <a href="#">GeForce GT 610M / GT 620M / GT 710M / GT 720M / GT</a> | 368                                  | 1785                   | NA                                 | NA                          |
| <a href="#">Radeon 3015e</a>                                       | 370                                  | 1784                   | NA                                 | NA                          |
| <a href="#">Intel UHD Graphics 605</a>                             | 371                                  | 1783                   | NA                                 | NA                          |
| Videocard Name                                                     | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                   |     |      |                      |                             |
|---------------------------------------------------|-----|------|----------------------|-----------------------------|
| <u>Radeon HD 8470D</u>                            | 374 | 1779 | NA                   | NA                          |
| <u>Radeon HD 8570D + HD8490 Dual</u>              | 374 | 1780 | NA                   | NA                          |
| <u>Radeon HD 5550</u>                             | 376 | 1778 | <a href="#">6.85</a> | <a href="#">\$54.99*</a>    |
| <u>Radeon HD 7520G + 8750M Dual</u>               | 376 | 1776 | NA                   | NA                          |
| <u>Radeon HD 7600G + 6400M Dual</u>               | 376 | 1777 | NA                   | NA                          |
| <u>Radeon HD 6490M</u>                            | 377 | 1775 | <a href="#">0.32</a> | <a href="#">\$1,193.03*</a> |
| <u>GeForce GT 335M</u>                            | 378 | 1773 | NA                   | NA                          |
| <u>Radeon HD 4670</u>                             | 378 | 1774 | <a href="#">2.65</a> | <a href="#">\$142.96*</a>   |
| <u>GeForce GTX 260M</u>                           | 379 | 1772 | NA                   | NA                          |
| <u>GeForce GT 620</u>                             | 380 | 1771 | <a href="#">2.47</a> | <a href="#">\$154.00*</a>   |
| <u>GeForce 9800M GT</u>                           | 381 | 1769 | NA                   | NA                          |
| <u>GeForce GT 130</u>                             | 381 | 1770 | <a href="#">2.52</a> | <a href="#">\$151.34*</a>   |
| <u>GeForce 8800M GTS</u>                          | 382 | 1768 | NA                   | NA                          |
| <u>GeForce 7900 GTX</u>                           | 387 | 1767 | NA                   | NA                          |
| <u>GeForce GT 330</u>                             | 389 | 1766 | <a href="#">9.73</a> | <a href="#">\$39.99*</a>    |
| <u>Incredible HD</u>                              | 389 | 1765 | NA                   | NA                          |
| <u>Radeon HD 7600G + 7450M Dual</u>               | 389 | 1764 | NA                   | NA                          |
| <u>Radeon HD 3850</u>                             | 392 | 1763 | NA                   | NA                          |
| <u>Radeon R5 Opteron X3216</u>                    | 394 | 1762 | NA                   | NA                          |
| <u>GeForce GT 420M</u>                            | 396 | 1761 | NA                   | NA                          |
| <u>Radeon HD 8650D</u>                            | 396 | 1760 | NA                   | NA                          |
| <u>Quadro FX 1800</u>                             | 397 | 1759 | <a href="#">2.95</a> | <a href="#">\$135.00*</a>   |
| <u>Intel HD 5300</u>                              | 400 | 1758 | NA                   | NA                          |
| <u>Radeon HD 6550D</u>                            | 400 | 1757 | NA                   | NA                          |
| <u>Mobility Radeon HD 4650</u>                    | 401 | 1756 | NA                   | NA                          |
| <u>RADEON E4690</u>                               | 405 | 1755 | NA                   | NA                          |
| <u>Radeon HD 7600G + 7500M/7600M Dual</u>         | 405 | 1754 | NA                   | NA                          |
| <u>Radeon HD 7640G + HD 7600M N HD 7600M Dual</u> | 406 | 1753 | NA                   | NA                          |
| <u>GeForce GTS 350M</u>                           | 407 | 1750 | NA                   | NA                          |
| <u>Radeon HD 7470M</u>                            | 407 | 1751 | NA                   | NA                          |
| <u>Radeon HD 8550G</u>                            | 407 | 1752 | NA                   | NA                          |

| Videocard Name                                             |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|------------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| CPU<br>Benchmarks                                          | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks         |
| <a href="#">GeForce 8800 GTS</a>                           |                          |                          |                      |                  | 412                                           | 1748                         | <a href="#">5.15</a>                        | <a href="#">\$79.99*</a>  |
| <a href="#">GeForce 810M</a>                               |                          |                          |                      |                  | 413                                           | 1747                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8610G</a>                            |                          |                          |                      |                  | 415                                           | 1746                         | NA                                          | NA                        |
| <a href="#">Quadro FX 2800M</a>                            |                          |                          |                      |                  | 416                                           | 1744                         | <a href="#">2.19</a>                        | <a href="#">\$190.00*</a> |
| <a href="#">Radeon R5 M230</a>                             |                          |                          |                      |                  | 416                                           | 1745                         | NA                                          | NA                        |
| <a href="#">Intel 4th Generation Haswell HD</a>            |                          |                          |                      |                  | 419                                           | 1743                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G N HD 7640G + HD 8570M Dual</a> |                          |                          |                      |                  | 422                                           | 1742                         | NA                                          | NA                        |
| <a href="#">RADEON HD6410D</a>                             |                          |                          |                      |                  | 422                                           | 1741                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7600G + 7550M Dual</a>               |                          |                          |                      |                  | 423                                           | 1740                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + HD 7500/7600 Dual</a>        |                          |                          |                      |                  | 423                                           | 1739                         | NA                                          | NA                        |
| <a href="#">FirePro M2000</a>                              |                          |                          |                      |                  | 425                                           | 1738                         | NA                                          | NA                        |
| <a href="#">GeForce GT 420</a>                             |                          |                          |                      |                  | 425                                           | 1737                         | <a href="#">2.75</a>                        | <a href="#">\$155.00*</a> |
| <a href="#">Quadro FX 4600</a>                             |                          |                          |                      |                  | 425                                           | 1736                         | <a href="#">1.28</a>                        | <a href="#">\$333.25*</a> |
| <a href="#">Radeon HD 8500M</a>                            |                          |                          |                      |                  | 426                                           | 1735                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7570M</a>                            |                          |                          |                      |                  | 427                                           | 1734                         | NA                                          | NA                        |
| Videocard Name                                             |                          |                          |                      |                  | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Radeon HD 3850 AGP</a>                         |                          |                          |                      |                  | 432                                           | 1733                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7600G + HD Dual</a>                  |                          |                          |                      |                  | 435                                           | 1731                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8410G</a>                            |                          |                          |                      |                  | 435                                           | 1732                         | NA                                          | NA                        |
| <a href="#">GeForce GT 620M</a>                            |                          |                          |                      |                  | 436                                           | 1730                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8570D</a>                            |                          |                          |                      |                  | 436                                           | 1729                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7650M</a>                            |                          |                          |                      |                  | 437                                           | 1728                         | NA                                          | NA                        |
| <a href="#">Quadro 410</a>                                 |                          |                          |                      |                  | 438                                           | 1727                         | <a href="#">3.40</a>                        | <a href="#">\$129.00*</a> |
| <a href="#">GeForce GT 710M</a>                            |                          |                          |                      |                  | 440                                           | 1726                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7620G + HD 8600M Dual</a>            |                          |                          |                      |                  | 442                                           | 1725                         | NA                                          | NA                        |
| <a href="#">PHDGD Ivy 5</a>                                |                          |                          |                      |                  | 445                                           | 1724                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + 8600M Dual</a>               |                          |                          |                      |                  | 445                                           | 1723                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 5650</a>                    |                          |                          |                      |                  | 447                                           | 1721                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + HD 7600M Dual</a>            |                          |                          |                      |                  | 447                                           | 1722                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8570M</a>                            |                          |                          |                      |                  | 448                                           | 1720                         | NA                                          | NA                        |
| <a href="#">GeForce GT625M</a>                             |                          |                          |                      |                  | 451                                           | 1719                         | NA                                          | NA                        |

|                   |                          | Videocard Name                                          | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)         |                       |                           |
|-------------------|--------------------------|---------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|------------------------|-----------------------|---------------------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks                                | Memory<br>Benchmarks                          | PC<br>Benchmarks             | Software<br>Marketshare                     | Database<br>Benchmarks | Android<br>Benchmarks | iOS<br>Benchmarks         |
|                   |                          | <u>Radeon HD 8450G + HD 8600M Dual</u>                  |                                               |                              | 452                                         | 1717                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7520G + 7650M Dual</u>                     |                                               |                              | 453                                         | 1716                   | NA                    | NA                        |
|                   |                          | <u>GeForce 9800M GTX</u>                                |                                               |                              | 454                                         | 1715                   | <a href="#">1.38</a>  | <a href="#">\$328.50*</a> |
|                   |                          | <u>GeForce 705M</u>                                     |                                               |                              | 455                                         | 1713                   | NA                    | NA                        |
|                   |                          | <u>GeForce 710M</u>                                     |                                               |                              | 455                                         | 1714                   | NA                    | NA                        |
|                   |                          | <u>Quadro FX 3700M</u>                                  |                                               |                              | 456                                         | 1712                   | <a href="#">0.49</a>  | <a href="#">\$925.00*</a> |
|                   |                          | <u>GeForce 9800 GT</u>                                  |                                               |                              | 457                                         | 1710                   | <a href="#">3.05</a>  | <a href="#">\$149.99</a>  |
|                   |                          | <u>GeForce GT 525M</u>                                  |                                               |                              | 457                                         | 1711                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7560D</u>                                  |                                               |                              | 457                                         | 1708                   | NA                    | NA                        |
|                   |                          | <u>Radeon R5 M320</u>                                   |                                               |                              | 457                                         | 1709                   | NA                    | NA                        |
|                   |                          | <u>GeForce GT 720M</u>                                  |                                               |                              | 458                                         | 1705                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7640G</u>                                  |                                               |                              | 458                                         | 1706                   | NA                    | NA                        |
|                   |                          | <u>Radeon R5 M240</u>                                   |                                               |                              | 458                                         | 1707                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7660G + HD 7600M N HD 7600M Dual</u>       |                                               |                              | 460                                         | 1704                   | NA                    | NA                        |
|                   |                          | <u>GeForce GT 320</u>                                   |                                               |                              | 461                                         | 1703                   | <a href="#">14.10</a> | <a href="#">\$32.69*</a>  |
|                   |                          | <u>GeForce 8800M GTX</u>                                |                                               |                              | 462                                         | 1701                   | NA                    | NA                        |
|                   |                          | <u>Intel HD Family</u>                                  |                                               |                              | 462                                         | 1702                   | NA                    | NA                        |
|                   |                          | <u>Mobility Radeon HD 4670</u>                          |                                               |                              | 463                                         | 1700                   | NA                    | NA                        |
|                   |                          | <u>Radeon R5 PRO A6-8530B R5, 6 COMPUTE CORES 2C+4G</u> |                                               |                              | 463                                         | 1699                   | NA                    | NA                        |
|                   |                          | <u>FirePro V5700</u>                                    |                                               |                              | 464                                         | 1698                   | <a href="#">2.47</a>  | <a href="#">\$188.06*</a> |
|                   |                          | <u>Radeon HD 7550M</u>                                  |                                               |                              | 464                                         | 1697                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7660D + 7470 Dual</u>                      |                                               |                              | 465                                         | 1696                   | NA                    | NA                        |
|                   |                          | <u>SUMO 9644</u>                                        |                                               |                              | 465                                         | 1695                   | NA                    | NA                        |
|                   |                          | <u>Quadro FX 1800M</u>                                  |                                               |                              | 466                                         | 1694                   | NA                    | NA                        |
|                   |                          | <u>Quadro FX 3600M</u>                                  |                                               |                              | 466                                         | 1693                   | NA                    | NA                        |
|                   |                          | <u>GeForce 8800 GT</u>                                  |                                               |                              | 468                                         | 1692                   | <a href="#">2.20</a>  | <a href="#">\$213.54*</a> |
|                   |                          | <u>Radeon HD 8570D + R5 235 Dual</u>                    |                                               |                              | 470                                         | 1691                   | NA                    | NA                        |
|                   |                          | <u>FirePro 3D V3800</u>                                 |                                               |                              | 472                                         | 1689                   | <a href="#">3.15</a>  | <a href="#">\$149.99*</a> |
|                   |                          | <u>GeForce 710A</u>                                     |                                               |                              | 472                                         | 1690                   | NA                    | NA                        |
|                   |                          | <u>Radeon HD 7670M</u>                                  |                                               |                              | 472                                         | 1688                   | <a href="#">0.75</a>  | <a href="#">\$629.99*</a> |
|                   |                          | <u>Radeon HD 7660G</u>                                  |                                               |                              | 473                                         | 1687                   | NA                    | NA                        |
|                   |                          | <u>Radeon R5 M315</u>                                   |                                               |                              | 473                                         | 1686                   | NA                    | NA                        |

| Videocard Name                                                   | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|------------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Radeon HD 8450G + 8670M Dual</a>                     | 474                                           | 1684                         | NA                                          | NA                        |
| <a href="#">Radeon R6 A8-8600P</a>                               | 474                                           | 1683                         | NA                                          | NA                        |
| <a href="#">GeForce 800A</a>                                     | 476                                           | 1681                         | NA                                          | NA                        |
| <a href="#">Radeon HD 5570</a>                                   | 476                                           | 1682                         | <a href="#">2.93</a>                        | <a href="#">\$162.35*</a> |
| <a href="#">Radeon HD 7600G + HD 7500M/7600M Dual</a>            | 476                                           | 1680                         | NA                                          | NA                        |
| <a href="#">GeForce 800M</a>                                     | 477                                           | 1679                         | NA                                          | NA                        |
| <a href="#">GeForce GT 540M</a>                                  | 477                                           | 1678                         | <a href="#">5.43</a>                        | <a href="#">\$87.95*</a>  |
| <a href="#">Mobility Radeon HD 3870 X2</a>                       | 477                                           | 1676                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8450G + HD 8670M Dual</a>                  | 477                                           | 1677                         | NA                                          | NA                        |
| <a href="#">GeForce 9600 GT</a>                                  | 478                                           | 1674                         | <a href="#">7.36</a>                        | <a href="#">\$64.99*</a>  |
| <a href="#">Mobility Radeon HD 5000 Serisi</a>                   | 478                                           | 1673                         | NA                                          | NA                        |
| <a href="#">Radeon R5 PRO A6-8500B R5, 6 Compute Cores 2C+4G</a> | 478                                           | 1675                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8610G + HD 8600M Dual</a>                  | 480                                           | 1672                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + 7400M Dual</a>                     | 486                                           | 1671                         | NA                                          | NA                        |
| <a href="#">Radeon 3020e</a>                                     | 487                                           | 1668                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8550G + R5 M230 Dual</a>                   | 487                                           | 1669                         | NA                                          | NA                        |
| <a href="#">Radeon R4E</a>                                       | 487                                           | 1670                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8670D N HD 8670D + HD 8670D Dual</a>       | 488                                           | 1667                         | NA                                          | NA                        |
| <a href="#">Radeon R5 M420</a>                                   | 489                                           | 1666                         | NA                                          | NA                        |
| <a href="#">Radeon HD8530M</a>                                   | 490                                           | 1665                         | NA                                          | NA                        |
| <a href="#">GeForce 820M</a>                                     | 492                                           | 1664                         | NA                                          | NA                        |
| <a href="#">GeForce 9800 GTX+</a>                                | 494                                           | 1663                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + HD 7670M Dual</a>                  | 495                                           | 1662                         | NA                                          | NA                        |
| <a href="#">ASUS EAH4870x2</a>                                   | 496                                           | 1661                         | NA                                          | NA                        |
| <a href="#">Radeon Vega 3 Athlon Silver 3050e</a>                | 496                                           | 1660                         | NA                                          | NA                        |
| <a href="#">GeForce GT 625M</a>                                  | 497                                           | 1658                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7500G + 7550M Dual</a>                     | 497                                           | 1659                         | NA                                          | NA                        |
| <a href="#">SUMO 964A</a>                                        | 497                                           | 1657                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M265DX</a>                                 | 498                                           | 1655                         | NA                                          | NA                        |
| <a href="#">TRINITY SCRAPPER MOBILE</a>                          | 498                                           | 1656                         | NA                                          | NA                        |
| <a href="#">GeForce GT 240</a>                                   | 503                                           | 1653                         | <a href="#">3.13</a>                        | <a href="#">\$160.97*</a> |

|                                                            |                                               |                              |                                             |                           |
|------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Radeon HD 8690A</a>                            | 505                                           | 1651                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M260</a>                             | 506                                           | 1649                         | <a href="#">0.63</a>                        | <a href="#">\$799.00*</a> |
| <a href="#">Radeon Vega 2</a>                              | 506                                           | 1650                         | NA                                          | NA                        |
| <a href="#">GeForce 615</a>                                | 507                                           | 1648                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 5730</a>                    | 507                                           | 1646                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7620G + HD 8670M Dual</a>            | 507                                           | 1647                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660D</a>                            | 507                                           | 1645                         | NA                                          | NA                        |
| <a href="#">NVS 5200M</a>                                  | 508                                           | 1642                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7620G + 8600M Dual</a>               | 508                                           | 1643                         | NA                                          | NA                        |
| <a href="#">Radeon R5 PRO A6-8500B 2C+4G</a>               | 508                                           | 1644                         | NA                                          | NA                        |
| <a href="#">GRID RTX6000-4Q</a>                            | 509                                           | 1640                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7600G + HD 7550M Dual</a>            | 509                                           | 1641                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 7610M Dual</a>               | 510                                           | 1639                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 4830</a>                    | 511                                           | 1638                         | NA                                          | NA                        |
| <a href="#">Intel HD P4000</a>                             | 516                                           | 1637                         | NA                                          | NA                        |
| <a href="#">Incredible HD 4000</a>                         | 517                                           | 1636                         | NA                                          | NA                        |
| Videocard Name                                             | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Radeon HD 7640G + HD 7670M Dual</a>            | 518                                           | 1635                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8670M</a>                            | 520                                           | 1634                         | NA                                          | NA                        |
| <a href="#">Radeon R5 330</a>                              | 520                                           | 1633                         | <a href="#">1.53</a>                        | <a href="#">\$339.99*</a> |
| <a href="#">Radeon Vega 2 Athlon Silver 3050U</a>          | 521                                           | 1632                         | NA                                          | NA                        |
| <a href="#">GeForce GT 425M</a>                            | 522                                           | 1631                         | NA                                          | NA                        |
| <a href="#">Intel HD 4400</a>                              | 522                                           | 1630                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + 7670M Dual</a>               | 523                                           | 1629                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660D + R5 235 Dual</a>              | 523                                           | 1628                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G</a>                            | 524                                           | 1627                         | NA                                          | NA                        |
| <a href="#">Quadro FX 5600</a>                             | 525                                           | 1626                         | <a href="#">1.78</a>                        | <a href="#">\$295.00*</a> |
| <a href="#">Radeon HD 7600G N HD 7600G + HD ON HD Dual</a> | 526                                           | 1625                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 6400M Dual</a>               | 526                                           | 1624                         | NA                                          | NA                        |
| <a href="#">Mobility Radeon HD 5570</a>                    | 527                                           | 1623                         | NA                                          | NA                        |
| <a href="#">Radeon 6600M</a>                               | 527                                           | 1622                         | NA                                          | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                                    |     |      |                      |                           |
|--------------------------------------------------------------------|-----|------|----------------------|---------------------------|
| <a href="#">Quadro 600</a>                                         | 530 | 1619 | <a href="#">6.98</a> | <a href="#">\$76.00*</a>  |
| <a href="#">RADEON HD6530D</a>                                     | 531 | 1618 | NA                   | NA                        |
| <a href="#">Radeon R6 PRO A8-8600B 4C+6G</a>                       | 531 | 1617 | NA                   | NA                        |
| <a href="#">Radeon HD 8550G + 8570M Dual</a>                       | 532 | 1615 | NA                   | NA                        |
| <a href="#">Radeon R6 PRO A10-8700B R6, 10 Compute Cores 4C+6G</a> | 532 | 1616 | NA                   | NA                        |
| <a href="#">GRID K180Q</a>                                         | 533 | 1614 | NA                   | NA                        |
| <a href="#">Radeon HD 7560D + HD 7000 Dual</a>                     | 534 | 1613 | NA                   | NA                        |
| <a href="#">GeForce GT 435M</a>                                    | 535 | 1612 | NA                   | NA                        |
| <a href="#">GeForce GT 630M</a>                                    | 537 | 1611 | NA                   | NA                        |
| <a href="#">Radeon R6 PRO A10-8700B 4C+6G</a>                      | 538 | 1610 | NA                   | NA                        |
| <a href="#">Qualcomm Adreno 675 GPU</a>                            | 539 | 1609 | NA                   | NA                        |
| <a href="#">Radeon HD 7520G + 7470M Dual</a>                       | 542 | 1608 | NA                   | NA                        |
| <a href="#">Quadro FX 2700</a>                                     | 543 | 1607 | NA                   | NA                        |
| <a href="#">Radeon HD 7600G + HD 8670M Dual</a>                    | 543 | 1606 | NA                   | NA                        |
| <a href="#">Radeon HD 7520G + HD 7400M Dual</a>                    | 544 | 1605 | NA                   | NA                        |
| <a href="#">Radeon R5 M255</a>                                     | 544 | 1604 | NA                   | NA                        |
| <a href="#">FirePro 3D V7750</a>                                   | 545 | 1603 | <a href="#">1.56</a> | <a href="#">\$350.00*</a> |
| <a href="#">Radeon HD 8450G + 8600M Dual</a>                       | 545 | 1602 | NA                   | NA                        |
| <a href="#">Radeon R7 M265</a>                                     | 545 | 1601 | NA                   | NA                        |
| <a href="#">FirePro 3D V5700</a>                                   | 546 | 1598 | <a href="#">1.71</a> | <a href="#">\$319.99*</a> |
| <a href="#">Radeon HD 8550G + HD 8670M Dual</a>                    | 546 | 1600 | NA                   | NA                        |
| <a href="#">Radeon R5 240</a>                                      | 546 | 1599 | <a href="#">6.43</a> | <a href="#">\$85.00*</a>  |
| <a href="#">Mobility Radeon HD 3870</a>                            | 547 | 1597 | NA                   | NA                        |
| <a href="#">Radeon HD 8550G + HD 7600M Dual</a>                    | 547 | 1596 | NA                   | NA                        |
| <a href="#">Radeon R6 A10-8700P</a>                                | 547 | 1595 | NA                   | NA                        |
| <a href="#">Radeon HD 6570</a>                                     | 548 | 1594 | <a href="#">8.44</a> | <a href="#">\$64.99*</a>  |
| <a href="#">Radeon R5 M335</a>                                     | 548 | 1593 | NA                   | NA                        |
| <a href="#">FireGL V8650</a>                                       | 550 | 1592 | <a href="#">1.84</a> | <a href="#">\$298.99*</a> |
| <a href="#">GeForce GT 820M</a>                                    | 551 | 1590 | NA                   | NA                        |
| <a href="#">Radeon R7 7850A10-7850K</a>                            | 551 | 1591 | NA                   | NA                        |
| <a href="#">GeForce GTS 250M</a>                                   | 553 | 1588 | NA                   | NA                        |

| Videocard Name                                                     | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|--------------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">GeForce 8800 GTS 512</a>                               | 554                                           | 1585                         | NA                                          | NA                        |
| Videocard Name                                                     | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">GeForce 9800M GS</a>                                   | 554                                           | 1586                         | NA                                          | NA                        |
| <a href="#">GF117</a>                                              | 554                                           | 1587                         | NA                                          | NA                        |
| <a href="#">GeForce 820A</a>                                       | 555                                           | 1582                         | NA                                          | NA                        |
| <a href="#">GeForce GT 635M</a>                                    | 555                                           | 1584                         | NA                                          | NA                        |
| <a href="#">Radeon HD 3870</a>                                     | 555                                           | 1583                         | <a href="#">2.24</a>                        | <a href="#">\$248.04</a>  |
| <a href="#">GeForce GTS 240</a>                                    | 556                                           | 1581                         | <a href="#">8.56</a>                        | <a href="#">\$64.99*</a>  |
| <a href="#">Radeon HD 7640G + 8570M Dual</a>                       | 558                                           | 1580                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 8670M Dual</a>                       | 558                                           | 1579                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8550G + HD 8500M Dual</a>                    | 558                                           | 1578                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + R5 M200 Dual</a>                     | 559                                           | 1577                         | NA                                          | NA                        |
| <a href="#">Radeon Vega 3 3020e</a>                                | 560                                           | 1576                         | NA                                          | NA                        |
| <a href="#">GeForce GT 550M</a>                                    | 562                                           | 1575                         | NA                                          | NA                        |
| <a href="#">Qualcomm Adreno 7c+ Gen 3</a>                          | 563                                           | 1572                         | NA                                          | NA                        |
| <a href="#">Radeon Athlon PRO 3045B</a>                            | 563                                           | 1574                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7560D + R5 235 Dual</a>                      | 563                                           | 1573                         | NA                                          | NA                        |
| <a href="#">Quadro 1000M</a>                                       | 564                                           | 1571                         | <a href="#">10.36</a>                       | <a href="#">\$54.50*</a>  |
| <a href="#">Radeon R7E</a>                                         | 564                                           | 1570                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6610M</a>                                    | 565                                           | 1569                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8550D</a>                                    | 566                                           | 1568                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7560D + 6450 Dual</a>                        | 568                                           | 1566                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + HD 7600M Dual</a>                    | 568                                           | 1567                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7650A</a>                                    | 569                                           | 1565                         | <a href="#">2.17</a>                        | <a href="#">\$262.00*</a> |
| <a href="#">Quadro 500M</a>                                        | 570                                           | 1563                         | <a href="#">2.07</a>                        | <a href="#">\$275.14*</a> |
| <a href="#">Radeon R6 + R7 M265DX Dual</a>                         | 570                                           | 1564                         | NA                                          | NA                        |
| <a href="#">GeForce GT 720A</a>                                    | 573                                           | 1562                         | NA                                          | NA                        |
| <a href="#">Quadro FX 3800M</a>                                    | 574                                           | 1559                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + HD 7700M Dual</a>                    | 574                                           | 1558                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G N HD 7520G + HD 7500/7600 7500/760</a> | 574                                           | 1561                         | NA                                          | NA                        |
| <a href="#">Radeon R5 420</a>                                      | 574                                           | 1560                         | <a href="#">14.39</a>                       | <a href="#">\$39.95*</a>  |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|-----------------------|--------------------------------------|------------------------|------------------------------------|----------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)          |                     |                    |                |

|                                                      |                                      |                        |                                    |                           |
|------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Intel Skylake HD DT GT2</a>              | 576                                  | 1554                   | NA                                 | NA                        |
| <a href="#">Radeon R5 A240</a>                       | 576                                  | 1555                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7620G + 8670M Dual</a>         | 577                                  | 1553                   | NA                                 | NA                        |
| <a href="#">Radeon HD 8610G + HD 8670M Dual</a>      | 577                                  | 1552                   | NA                                 | NA                        |
| <a href="#">Radeon HD 8450G + R5 M230 Dual</a>       | 578                                  | 1551                   | NA                                 | NA                        |
| <a href="#">GeForce 8800 GTX</a>                     | 579                                  | 1548                   | <a href="#">4.83</a>               | <a href="#">\$119.99*</a> |
| <a href="#">Radeon HD 8550G + 8670M Dual</a>         | 579                                  | 1549                   | NA                                 | NA                        |
| <a href="#">Radeon R7 PRO A12-8830B</a>              | 579                                  | 1547                   | NA                                 | NA                        |
| <a href="#">Radeon Vega 3 Ryzen Embedded R1305G</a>  | 579                                  | 1550                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7520G + 7500/7600 Dual</a>     | 582                                  | 1546                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7640G + 8500M Dual</a>         | 585                                  | 1544                   | NA                                 | NA                        |
| <a href="#">Radeon HD 8650G + HD 8670M Dual</a>      | 585                                  | 1545                   | NA                                 | NA                        |
| <a href="#">Intel HD 5000</a>                        | 586                                  | 1541                   | <a href="#">0.94</a>               | <a href="#">\$625.00*</a> |
| <a href="#">Radeon HD 7640G + HD 8600/8700M Dual</a> | 586                                  | 1542                   | NA                                 | NA                        |
| <a href="#">Radeon R5 A6-8500P</a>                   | 586                                  | 1543                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7660G + 8670M Dual</a>         | 587                                  | 1540                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7520G + 7610M Dual</a>         | 588                                  | 1538                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7660G + 7400M Dual</a>         | 588                                  | 1539                   | NA                                 | NA                        |
| Videocard Name                                       | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">Radeon HD 8610G + 8600M Dual</a>         | 588                                  | 1537                   | NA                                 | NA                        |
| <a href="#">GeForce 910M</a>                         | 589                                  | 1535                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7640G + HD 7700M Dual</a>      | 589                                  | 1536                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7520G + 7600M Dual</a>         | 591                                  | 1534                   | NA                                 | NA                        |
| <a href="#">GeForce GTS 250</a>                      | 592                                  | 1531                   | <a href="#">6.89</a>               | <a href="#">\$86.06*</a>  |
| <a href="#">Intel HD 5500</a>                        | 592                                  | 1533                   | NA                                 | NA                        |
| <a href="#">Surface Duo Adreno 640 GPU</a>           | 592                                  | 1532                   | NA                                 | NA                        |
| <a href="#">Radeon HD 8550G + HD 8600M Dual</a>      | 593                                  | 1530                   | NA                                 | NA                        |
| <a href="#">Radeon HD 7640G + 7470M Dual</a>         | 595                                  | 1529                   | NA                                 | NA                        |
| <a href="#">Radeon R5 M330</a>                       | 595                                  | 1528                   | NA                                 | NA                        |
| <a href="#">GeForce 9800 GTX/9800 GTX+</a>           | 596                                  | 1526                   | <a href="#">6.62</a>               | <a href="#">\$89.99*</a>  |
| <a href="#">Radeon HD 8510G + 8500M Dual</a>         | 596                                  | 1527                   | NA                                 | NA                        |

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

Videocard Name

Passmark  
G3D Mark  
(higher is  
better)

Rank  
(lower is  
better)

Videocard  
Value  
(higher is  
better)

Price  
(USD)

|                                                                    |     |      |                      |                           |
|--------------------------------------------------------------------|-----|------|----------------------|---------------------------|
| <a href="#">Radeon HD 8610G + 8670M Dual</a>                       | 599 | 1523 | NA                   | NA                        |
| <a href="#">GeForce GT 430</a>                                     | 601 | 1522 | <a href="#">4.30</a> | <a href="#">\$139.99*</a> |
| <a href="#">Radeon HD 8550G + 8500M Dual</a>                       | 602 | 1521 | NA                   | NA                        |
| <a href="#">Radeon R5 PRO A10-8730B R5, 10 COMPUTE CORES 4C+6G</a> | 603 | 1520 | NA                   | NA                        |
| <a href="#">Intel HD P4600</a>                                     | 604 | 1519 | NA                   | NA                        |
| <a href="#">Radeon R5 A6-9400 RADEON R5, 6 COMPUTE CORES 2C+4G</a> | 605 | 1518 | NA                   | NA                        |
| <a href="#">Radeon R6 M255DX</a>                                   | 605 | 1517 | NA                   | NA                        |
| <a href="#">Radeon HD 8650G + HD 8600M Dual</a>                    | 606 | 1516 | NA                   | NA                        |
| <a href="#">Radeon HD 7640G + HD 8500M Dual</a>                    | 607 | 1515 | NA                   | NA                        |
| <a href="#">Radeon R7 A360</a>                                     | 607 | 1514 | NA                   | NA                        |
| <a href="#">7900 MOD - Radeon HD 6520G</a>                         | 610 | 1512 | NA                   | NA                        |
| <a href="#">Radeon HD 7570</a>                                     | 610 | 1511 | <a href="#">5.96</a> | <a href="#">\$102.49*</a> |
| <a href="#">Radeon HD 8610G + 8500M Dual</a>                       | 610 | 1513 | NA                   | NA                        |
| <a href="#">Radeon HD 8550G N HD 8550G + HD 8600M N HD 8600M D</a> | 611 | 1510 | NA                   | NA                        |
| <a href="#">GeForce 9800 GX2</a>                                   | 612 | 1509 | <a href="#">3.14</a> | <a href="#">\$195.00*</a> |
| <a href="#">Radeon HD 8650G + 8600M Dual</a>                       | 613 | 1508 | NA                   | NA                        |
| <a href="#">GeForce 720A</a>                                       | 614 | 1507 | NA                   | NA                        |
| <a href="#">Intel UHD 630</a>                                      | 614 | 1506 | NA                   | NA                        |
| <a href="#">FireGL V7600</a>                                       | 615 | 1505 | NA                   | NA                        |
| <a href="#">GeForce GT 720</a>                                     | 616 | 1503 | <a href="#">6.17</a> | <a href="#">\$99.99*</a>  |
| <a href="#">Radeon HD 7500G + 7500M/7600M Dual</a>                 | 616 | 1502 | NA                   | NA                        |
| <a href="#">Radeon R6</a>                                          | 616 | 1504 | NA                   | NA                        |
| <a href="#">Radeon HD 8550G + 8600M Dual</a>                       | 617 | 1501 | NA                   | NA                        |
| <a href="#">Intel HD 4600 manual-gen9_2015-134121</a>              | 619 | 1498 | NA                   | NA                        |
| <a href="#">Radeon HD 8550G + R5 M200 Dual</a>                     | 619 | 1499 | NA                   | NA                        |
| <a href="#">Radeon R5 A10-9600P 4C+6G</a>                          | 619 | 1500 | NA                   | NA                        |
| <a href="#">Radeon HD 8570 + 8670D Dual</a>                        | 620 | 1497 | NA                   | NA                        |
| <a href="#">Radeon HD 7640G + HD 7400M Dual</a>                    | 621 | 1496 | NA                   | NA                        |
| <a href="#">Intel HD 510</a>                                       | 622 | 1495 | NA                   | NA                        |
| <a href="#">NVS 5400M</a>                                          | 622 | 1494 | NA                   | NA                        |

| Videocard Name                                             | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Radeon HD 8650G + 8500M Dual</a>               | 626                                           | 1491                         | NA                                          | NA                        |
| <a href="#">Radeon HD 2900 PRO</a>                         | 627                                           | 1489                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 7500/7600 Dual</a>           | 627                                           | 1490                         | NA                                          | NA                        |
| Videocard Name                                             | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">GRID K160Q</a>                                 | 628                                           | 1488                         | NA                                          | NA                        |
| <a href="#">Radeon R7 PRO A10-9700B</a>                    | 628                                           | 1487                         | NA                                          | NA                        |
| <a href="#">Intel HD 4600</a>                              | 629                                           | 1486                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8510G + HD 8500M Dual</a>            | 629                                           | 1485                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + HD 7700M N HD 7700M Dual</a> | 630                                           | 1483                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + 7470M Dual</a>               | 630                                           | 1484                         | NA                                          | NA                        |
| <a href="#">Radeon R7 PRO A12-8800B</a>                    | 631                                           | 1482                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7610M</a>                            | 632                                           | 1481                         | NA                                          | NA                        |
| <a href="#">Intel HD P4600/P4700</a>                       | 633                                           | 1480                         | NA                                          | NA                        |
| <a href="#">Radeon HD 5600/5700</a>                        | 633                                           | 1479                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660D + HD 7000 Dual</a>             | 633                                           | 1478                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G + HD 7670M Dual</a>            | 634                                           | 1477                         | NA                                          | NA                        |
| <a href="#">GeForce 9800 S</a>                             | 635                                           | 1474                         | NA                                          | NA                        |
| <a href="#">Intel HD 515</a>                               | 635                                           | 1475                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G + 8670M Dual</a>               | 635                                           | 1476                         | NA                                          | NA                        |
| <a href="#">GeForce GTX 285M</a>                           | 636                                           | 1473                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 7400M Dual</a>               | 637                                           | 1471                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8450G + 8750M Dual</a>               | 637                                           | 1472                         | NA                                          | NA                        |
| <a href="#">Radeon R5 PRO A6-8570E 2C+4G</a>               | 637                                           | 1470                         | NA                                          | NA                        |
| <a href="#">FirePro V3900</a>                              | 640                                           | 1469                         | <a href="#">2.68</a>                        | <a href="#">\$238.44*</a> |
| <a href="#">Quadro K510M</a>                               | 641                                           | 1468                         | NA                                          | NA                        |
| <a href="#">GeForce 8800 Ultra</a>                         | 642                                           | 1467                         | <a href="#">1.04</a>                        | <a href="#">\$619.99</a>  |
| <a href="#">Radeon HD 7540D + HD 6450 Dual</a>             | 643                                           | 1466                         | NA                                          | NA                        |
| <a href="#">GeForce GTS 360M</a>                           | 644                                           | 1464                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + 7670M Dual</a>               | 644                                           | 1465                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8610G + HD 8500M Dual</a>            | 645                                           | 1463                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6670 + 6670 Dual</a>                 | 646                                           | 1462                         | NA                                          | NA                        |

| Videocard Name                                            | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>Radeon R5 M430</u>                                     | 648                                           | 1458                         | NA                                          | NA                        |
| <u>Radeon R5 PRO A6-8570E R5, 6 COMPUTE CORES 2C+4G</u>   | 648                                           | 1459                         | NA                                          | NA                        |
| <u>GRID K1</u>                                            | 650                                           | 1456                         | <a href="#">1.65</a>                        | <a href="#">\$395.00*</a> |
| <u>SUMO 9640</u>                                          | 650                                           | 1457                         | NA                                          | NA                        |
| <u>Radeon HD 7520G + HD 8750M Dual</u>                    | 651                                           | 1455                         | NA                                          | NA                        |
| <u>Radeon HD 8650G + HD 8750M Dual</u>                    | 651                                           | 1454                         | NA                                          | NA                        |
| <u>GeForce GT 735M</u>                                    | 652                                           | 1453                         | NA                                          | NA                        |
| <u>GeForce GT 555M</u>                                    | 653                                           | 1452                         | <a href="#">3.69</a>                        | <a href="#">\$177.20*</a> |
| <u>Radeon HD 7640G + 8750M Dual</u>                       | 654                                           | 1449                         | NA                                          | NA                        |
| <u>Radeon HD 8550G + HD 8600/8700M Dual</u>               | 654                                           | 1450                         | NA                                          | NA                        |
| <u>Radeon HD 8650G + 8570M Dual</u>                       | 654                                           | 1451                         | NA                                          | NA                        |
| <u>GeForce 810A</u>                                       | 655                                           | 1448                         | NA                                          | NA                        |
| <u>Radeon R7 M340</u>                                     | 655                                           | 1447                         | NA                                          | NA                        |
| <u>GeForce GT 140</u>                                     | 657                                           | 1445                         | NA                                          | NA                        |
| <u>Radeon R7 PRO A12-9800B</u>                            | 657                                           | 1446                         | NA                                          | NA                        |
| <u>Radeon R5 PRO A8-9600B 4C+6G</u>                       | 658                                           | 1444                         | NA                                          | NA                        |
| <u>Radeon HD 2900 XT</u>                                  | 659                                           | 1443                         | NA                                          | NA                        |
| <u>FireGL V7700</u>                                       | 660                                           | 1442                         | <a href="#">9.43</a>                        | <a href="#">\$69.99*</a>  |
| <u>Radeon HD 8550G + 8690M Dual</u>                       | 664                                           | 1441                         | NA                                          | NA                        |
| <u>FirePro M7740</u>                                      | 665                                           | 1440                         | NA                                          | NA                        |
| Videocard Name                                            | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>Radeon HD 7640G + HD 8500M N HD 8500M Dual</u>         | 665                                           | 1439                         | NA                                          | NA                        |
| <u>GeForce GT 740A</u>                                    | 667                                           | 1437                         | NA                                          | NA                        |
| <u>Radeon R7 A8 PRO-7600B</u>                             | 667                                           | 1438                         | NA                                          | NA                        |
| <u>GeForce GT 530</u>                                     | 670                                           | 1435                         | <a href="#">13.69</a>                       | <a href="#">\$49.00*</a>  |
| <u>Radeon R8 M535DX</u>                                   | 670                                           | 1436                         | NA                                          | NA                        |
| <u>Radeon R5 A10-9620P RADEON R5, 10 COMPUTE CORES 4C</u> | 673                                           | 1434                         | NA                                          | NA                        |
| <u>Radeon Vega 3 Athlon Gold 3150U</u>                    | 674                                           | 1433                         | NA                                          | NA                        |
| <u>Radeon Athlon Silver 3050U</u>                         | 675                                           | 1432                         | NA                                          | NA                        |
| <u>GeForce GT 630</u>                                     | 676                                           | 1429                         | <a href="#">4.60</a>                        | <a href="#">\$147.01*</a> |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                           |     |      |                      |                           |
|-----------------------------------------------------------|-----|------|----------------------|---------------------------|
| <u>Radeon HD 7640G + HD 8670M Dual</u>                    | 677 | 1427 | NA                   | NA                        |
| <u>Radeon Vega 3 Athlon 320GE</u>                         | 677 | 1428 | NA                   | NA                        |
| <u>GeForce GTS 160M</u>                                   | 678 | 1426 | NA                   | NA                        |
| <u>Radeon HD 7640G N HD 7640G + HD 7670M Dual</u>         | 679 | 1425 | NA                   | NA                        |
| <u>Radeon HD 8650G N HD 8650G + HD 8600M N HD 8600M D</u> | 679 | 1424 | NA                   | NA                        |
| <u>GRID P40-3Q</u>                                        | 681 | 1423 | NA                   | NA                        |
| <u>Radeon HD 6630M</u>                                    | 684 | 1422 | NA                   | NA                        |
| <u>Radeon HD 8650G + R5 M230 Dual</u>                     | 686 | 1421 | NA                   | NA                        |
| <u>Radeon HD 7640G + 8600/8700M Dual</u>                  | 688 | 1420 | NA                   | NA                        |
| <u>NVS 510</u>                                            | 689 | 1419 | <a href="#">6.15</a> | <a href="#">\$111.99*</a> |
| <u>Radeon R5 PRO A6-8530B 2C+4G</u>                       | 689 | 1418 | NA                   | NA                        |
| <u>Radeon HD 7640G + 7700M Dual</u>                       | 690 | 1417 | NA                   | NA                        |
| <u>Radeon R5 A6-9500E RADEON R5, 6 COMPUTE CORES 2C+4</u> | 692 | 1416 | NA                   | NA                        |
| <u>Radeon R5 PRO A6-9500B 2C+4G</u>                       | 693 | 1415 | NA                   | NA                        |
| <u>Radeon R5 PRO A10-8730B 4C+6G</u>                      | 695 | 1414 | NA                   | NA                        |
| <u>Intel HD 610</u>                                       | 698 | 1413 | NA                   | NA                        |
| <u>Radeon HD 7570M/HD 7670M</u>                           | 699 | 1412 | NA                   | NA                        |
| <u>Radeon R5 A10-9600P RADEON R5, 10 COMPUTE CORES 4C</u> | 699 | 1410 | NA                   | NA                        |
| <u>TRINITY DEVASTATOR MOBILE</u>                          | 699 | 1411 | NA                   | NA                        |
| <u>Radeon HD 7640G + HD 7600M Dual</u>                    | 704 | 1409 | NA                   | NA                        |
| <u>Radeon HD 7660G N HD 7660G + HD 7670M Dual</u>         | 704 | 1408 | NA                   | NA                        |
| <u>Intel HD 615</u>                                       | 705 | 1406 | NA                   | NA                        |
| <u>Radeon HD 7640G + 7600M Dual</u>                       | 705 | 1407 | NA                   | NA                        |
| <u>Radeon HD 7660G + HD 7670M Dual</u>                    | 706 | 1405 | NA                   | NA                        |
| <u>GeForce GT 640M LE</u>                                 | 707 | 1404 | <a href="#">0.83</a> | <a href="#">\$849.99*</a> |
| <u>Mi Pad 5 Adreno 640 GPU</u>                            | 707 | 1401 | NA                   | NA                        |
| <u>Radeon HD 6550A</u>                                    | 707 | 1402 | NA                   | NA                        |
| <u>Radeon R5 A6-7480</u>                                  | 707 | 1403 | NA                   | NA                        |
| <u>Radeon HD 3870 X2</u>                                  | 708 | 1400 | NA                   | NA                        |
| <u>Intel UHD Graphics 610</u>                             | 709 | 1399 | NA                   | NA                        |

| <u>Radeon R7 PRO A8-8650B</u>                             | 714                                           | 1396                         | NA                                          | NA                        |
|-----------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>Radeon R7 A12-9700P RADEON</u>                         | 715                                           | 1395                         | <a href="#">1.64</a>                        | <a href="#">\$435.92*</a> |
| <u>Radeon HD 8650G + HD 8570M Dual</u>                    | 716                                           | 1394                         | NA                                          | NA                        |
| <u>GeForce 920M</u>                                       | 717                                           | 1393                         | NA                                          | NA                        |
| <u>Radeon HD 8470D + 6450 Dual</u>                        | 717                                           | 1392                         | NA                                          | NA                        |
| <u>Radeon HD 8670D + HD 7000 Dual</u>                     | 718                                           | 1391                         | NA                                          | NA                        |
| Videocard Name                                            | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>Mobility Radeon HD 4870</u>                            | 719                                           | 1389                         | NA                                          | NA                        |
| <u>Radeon HD 7540D + 6570 Dual</u>                        | 719                                           | 1390                         | NA                                          | NA                        |
| <u>Asus GTX 650 FML II EC-EGPU</u>                        | 720                                           | 1388                         | NA                                          | NA                        |
| <u>Radeon HD 7660G N HD 7660G + HD 7600M N HD 7600M D</u> | 722                                           | 1386                         | NA                                          | NA                        |
| <u>Radeon HD 8650G + R5 M200 Dual</u>                     | 722                                           | 1387                         | NA                                          | NA                        |
| <u>Radeon R7 FX-9800P RADEON</u>                          | 723                                           | 1385                         | <a href="#">1.37</a>                        | <a href="#">\$530.00*</a> |
| <u>Radeon HD 6670</u>                                     | 724                                           | 1384                         | <a href="#">10.50</a>                       | <a href="#">\$68.99*</a>  |
| <u>Radeon R7 A10-7800</u>                                 | 725                                           | 1383                         | NA                                          | NA                        |
| <u>GRID K140Q</u>                                         | 727                                           | 1382                         | NA                                          | NA                        |
| <u>Radeon HD 7550M/7650M</u>                              | 728                                           | 1381                         | NA                                          | NA                        |
| <u>Intel UHD Graphics 615</u>                             | 729                                           | 1380                         | NA                                          | NA                        |
| <u>Quadro K600</u>                                        | 730                                           | 1378                         | <a href="#">12.12</a>                       | <a href="#">\$60.24*</a>  |
| <u>Radeon Vega 3 Ryzen Embedded R1505G</u>                | 730                                           | 1379                         | NA                                          | NA                        |
| <u>Radeon R5 A10-9620P 4C+6G</u>                          | 731                                           | 1377                         | NA                                          | NA                        |
| <u>Radeon R5 A10-9630P RADEON R5, 10 COMPUTE CORES 4C</u> | 734                                           | 1376                         | NA                                          | NA                        |
| <u>Radeon R7 A12-9720P RADEON</u>                         | 734                                           | 1375                         | <a href="#">2.01</a>                        | <a href="#">\$365.48*</a> |
| <u>Radeon R7 A8-7650K</u>                                 | 734                                           | 1374                         | NA                                          | NA                        |
| <u>Radeon R5 235 + HD 8570D Dual</u>                      | 737                                           | 1373                         | NA                                          | NA                        |
| <u>GeForce GT 340</u>                                     | 738                                           | 1371                         | <a href="#">13.93</a>                       | <a href="#">\$52.99*</a>  |
| <u>Intel Poison Ivy</u>                                   | 738                                           | 1370                         | NA                                          | NA                        |
| <u>Radeon HD 7670M + 7670M Dual</u>                       | 738                                           | 1372                         | NA                                          | NA                        |
| <u>Quadro K420</u>                                        | 739                                           | 1369                         | <a href="#">2.75</a>                        | <a href="#">\$269.00*</a> |
| <u>Radeon HD 8650G + 7600M Dual</u>                       | 741                                           | 1368                         | NA                                          | NA                        |

| CPU Benchmarks | Video Card Benchmarks | Hard Drive Benchmarks                                      | Memory Benchmarks | PC Benchmarks                        | Software Marketshare   | Database Benchmarks                | Android Benchmarks                 | iOS Benchmarks |
|----------------|-----------------------|------------------------------------------------------------|-------------------|--------------------------------------|------------------------|------------------------------------|------------------------------------|----------------|
|                |                       | Videocard Name                                             |                   | Passmark G3D Mark (higher is better) |                        | Rank (lower is better)             | Videocard Value (higher is better) | Price (USD)    |
|                |                       | <a href="#">Radeon HD 7660G + 7670M Dual</a>               |                   | 743                                  | 1365                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R5 235 + HD 7560D Dual</a>              |                   | 743                                  | 1364                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7660G + 7610M Dual</a>               |                   | 745                                  | 1363                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 8670D + R5 330 Dual</a>              |                   | 746                                  | 1362                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7640G + 7650M Dual</a>               |                   | 747                                  | 1360                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7660G + HD 8600/8700M Dual</a>       |                   | 747                                  | 1361                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Qualcomm Adreno 7c Gen 3 GPU</a>               |                   | 748                                  | 1359                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Incredible HD 4600</a>                         |                   | 749                                  | 1357                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon M535DX</a>                              |                   | 749                                  | 1358                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 6650M</a>                            |                   | 750                                  | 1356                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 8570D + HD 7000 Dual</a>             |                   | 753                                  | 1355                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7640G + 7450M Dual</a>               |                   | 754                                  | 1354                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R7 A10 PRO-7800B</a>                    |                   | 754                                  | 1353                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Quadro 1100M</a>                               |                   | 755                                  | 1352                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7660G + 7700M Dual</a>               |                   | 757                                  | 1350                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 8650G + HD 8600M N HD 8600M Dual</a> |                   | 757                                  | 1349                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon Vega 3 Ryzen 3 3250U</a>                |                   | 757                                  | 1351                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7660G + HD 8500M Dual</a>            |                   | 758                                  | 1348                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 7660G + HD 7500/7600 Dual</a>        |                   | 760                                  | 1347                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 6450 + 8470D Dual</a>                |                   | 762                                  | 1346                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Mobility Radeon HD 5850</a>                    |                   | 763                                  | 1345                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon HD 8650G + HD 8600/8700M Dual</a>       |                   | 763                                  | 1344                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R7 M270</a>                             |                   | 766                                  | 1343                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">GeForce 9800 GTX</a>                           |                   | 769                                  | 1342                   | <a href="#">10.26</a>              | <a href="#">\$74.99*</a>           |                |
|                |                       | Videocard Name                                             |                   | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                        |                |
|                |                       | <a href="#">Radeon HD 4810</a>                             |                   | 769                                  | 1341                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">GeForce 730A</a>                               |                   | 770                                  | 1339                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R5 PRO A6-9500E 2C+4G</a>               |                   | 770                                  | 1338                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R7 A10-7700K</a>                        |                   | 770                                  | 1340                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Radeon R7 PRO A10-8750B</a>                    |                   | 770                                  | 1337                   | NA                                 | NA                                 |                |
|                |                       | <a href="#">Mobility Radeon HD 5000</a>                    |                   | 773                                  | 1335                   | NA                                 | NA                                 |                |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                                 |     |      |                       |                           |
|-----------------------------------------------------------------|-----|------|-----------------------|---------------------------|
| <a href="#">Radeon HD 7600M + 7600M Dual</a>                    | 773 | 1333 | NA                    | NA                        |
| <a href="#">Radeon HD 8650G N HD 8650G + HD 8570M Dual</a>      | 773 | 1334 | NA                    | NA                        |
| <a href="#">Radeon R7 A10-8850</a>                              | 773 | 1336 | NA                    | NA                        |
| <a href="#">GeForce GT 440</a>                                  | 774 | 1330 | <a href="#">3.44</a>  | <a href="#">\$225.00*</a> |
| <a href="#">Quadro K1000M</a>                                   | 775 | 1329 | <a href="#">11.08</a> | <a href="#">\$69.95*</a>  |
| <a href="#">Radeon HD 7640G + 7500M/7600M Dual</a>              | 775 | 1328 | NA                    | NA                        |
| <a href="#">Radeon HD 7660G + HD 7700M Dual</a>                 | 777 | 1327 | NA                    | NA                        |
| <a href="#">Radeon HD 7730M</a>                                 | 777 | 1326 | NA                    | NA                        |
| <a href="#">Quadro 2000M</a>                                    | 778 | 1325 | <a href="#">3.39</a>  | <a href="#">\$229.74*</a> |
| <a href="#">Radeon R7 A8-7600</a>                               | 780 | 1324 | NA                    | NA                        |
| <a href="#">Radeon R7 A365</a>                                  | 781 | 1323 | NA                    | NA                        |
| <a href="#">Radeon R7 PRO A6-9500 2C+6G</a>                     | 781 | 1321 | NA                    | NA                        |
| <a href="#">Radeon Ryzen 3 3250U</a>                            | 781 | 1322 | NA                    | NA                        |
| <a href="#">GeForce 825M</a>                                    | 782 | 1320 | NA                    | NA                        |
| <a href="#">Radeon HD 6800M</a>                                 | 782 | 1319 | NA                    | NA                        |
| <a href="#">Radeon R7 M365X</a>                                 | 785 | 1318 | NA                    | NA                        |
| <a href="#">Radeon HD 8650G + 8750M Dual</a>                    | 786 | 1317 | NA                    | NA                        |
| <a href="#">Radeon Vega 3 Athlon Gold PRO 3150G</a>             | 787 | 1316 | NA                    | NA                        |
| <a href="#">Radeon R5 PRO A6-9500 R5, 8 COMPUTE CORES 2C+6G</a> | 793 | 1315 | NA                    | NA                        |
| <a href="#">GRID M10-0Q</a>                                     | 795 | 1314 | NA                    | NA                        |
| <a href="#">Radeon HD 8550G + 8750M Dual</a>                    | 795 | 1313 | NA                    | NA                        |
| <a href="#">Radeon HD 8650G N HD 8650G + HD 8600/8700M Dual</a> | 796 | 1312 | NA                    | NA                        |
| <a href="#">Radeon R8 M445DX</a>                                | 796 | 1311 | NA                    | NA                        |
| <a href="#">GeForce GT 740M</a>                                 | 798 | 1310 | NA                    | NA                        |
| <a href="#">Radeon HD 8650G + HD 8790M Dual</a>                 | 799 | 1309 | NA                    | NA                        |
| <a href="#">Radeon R7 PRO A10-9700</a>                          | 800 | 1308 | NA                    | NA                        |
| <a href="#">Radeon HD 8730M</a>                                 | 801 | 1307 | NA                    | NA                        |
| <a href="#">Radeon HD 5670</a>                                  | 802 | 1306 | <a href="#">8.25</a>  | <a href="#">\$97.26</a>   |
| <a href="#">Radeon HD 8550G + 8600/8700M Dual</a>               | 802 | 1305 | NA                    | NA                        |
| <a href="#">Radeon HD 7670</a>                                  | 807 | 1304 | NA                    | NA                        |
| <a href="#">GeForce GT 445M</a>                                 | 811 | 1303 | NA                    | NA                        |
| <a href="#">Radeon HD 8670D + 7000 Dual</a>                     | 811 | 1302 | NA                    | NA                        |

|                                                                    |                                               |                              |                                             |                           |
|--------------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Radeon R7 PRO A10-8770E</a>                            | 815                                           | 1299                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M260DX</a>                                   | 816                                           | 1298                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8550G + HD 8750M Dual</a>                    | 819                                           | 1297                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G + HD 7600M Dual</a>                    | 819                                           | 1296                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7540D + 7500 Dual</a>                        | 821                                           | 1295                         | NA                                          | NA                        |
| <a href="#">Radeon R5 M435</a>                                     | 821                                           | 1294                         | NA                                          | NA                        |
| <a href="#">Radeon R7 A10 Extreme Edition</a>                      | 821                                           | 1293                         | NA                                          | NA                        |
| Videocard Name                                                     | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Radeon HD 3850 X2</a>                                  | 822                                           | 1292                         | NA                                          | NA                        |
| <a href="#">Radeon R7 A10 PRO-7850B</a>                            | 822                                           | 1291                         | NA                                          | NA                        |
| <a href="#">Quadro FX 3800</a>                                     | 823                                           | 1289                         | <a href="#">3.18</a>                        | <a href="#">\$259.13*</a> |
| <a href="#">Radeon R7 A8-7680</a>                                  | 823                                           | 1290                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G N HD 7640G + HD 7600M N HD 7600M D</a> | 824                                           | 1288                         | NA                                          | NA                        |
| <a href="#">GeForce GT 635</a>                                     | 825                                           | 1287                         | <a href="#">12.33</a>                       | <a href="#">\$66.94*</a>  |
| <a href="#">GRID M60-0Q</a>                                        | 827                                           | 1286                         | NA                                          | NA                        |
| <a href="#">Radeon R7 FX-8800P</a>                                 | 829                                           | 1285                         | NA                                          | NA                        |
| <a href="#">Intel HD 5200</a>                                      | 830                                           | 1284                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + 7600M Dual</a>                       | 831                                           | 1283                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G + 8600/8700M Dual</a>                  | 831                                           | 1282                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7520G + HD 7500/7600 Dual</a>                | 832                                           | 1281                         | NA                                          | NA                        |
| <a href="#">Radeon R7 A8-9600 RADEON</a>                           | 832                                           | 1280                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7560D + 6570 Dual</a>                        | 833                                           | 1279                         | NA                                          | NA                        |
| <a href="#">GeForce GT 730</a>                                     | 834                                           | 1278                         | <a href="#">7.59</a>                        | <a href="#">\$109.99*</a> |
| <a href="#">Radeon HD 6650A</a>                                    | 835                                           | 1277                         | NA                                          | NA                        |
| <a href="#">GeForce 920A</a>                                       | 836                                           | 1276                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8670D + R5 235 Dual</a>                      | 836                                           | 1275                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8470D + 6570 Dual</a>                        | 837                                           | 1274                         | NA                                          | NA                        |
| <a href="#">FireGL V8600</a>                                       | 838                                           | 1273                         | NA                                          | NA                        |
| <a href="#">Radeon Vega 3 Athlon 300U</a>                          | 839                                           | 1272                         | NA                                          | NA                        |
| <a href="#">Radeon HD 4830</a>                                     | 844                                           | 1271                         | <a href="#">14.08</a>                       | <a href="#">\$59.99*</a>  |

| CPU Benchmarks |  | Video Card Benchmarks                                   | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks              |
|----------------|--|---------------------------------------------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
|                |  | Videocard Name                                          |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">Radeon R5 435</a>                           |                       |                   |               | 850                                  | 1268                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 8500M/8700M</a>                   |                       |                   |               | 852                                  | 1266                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon Vega 3 Ryzen 3 3200U</a>             |                       |                   |               | 852                                  | 1267                   | NA                                 | NA                          |
|                |  | <a href="#">FirePro 3D V4800</a>                        |                       |                   |               | 853                                  | 1263                   | <a href="#">5.33</a>               | <a href="#">\$159.99*</a>   |
|                |  | <a href="#">Radeon R5 A6-9500 2C+6G</a>                 |                       |                   |               | 853                                  | 1264                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 A8-7500 4C+6G</a>                 |                       |                   |               | 853                                  | 1265                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon Vega 3 Athlon Silver 3050U</a>       |                       |                   |               | 855                                  | 1262                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 A10-8750</a>                      |                       |                   |               | 856                                  | 1261                   | NA                                 | NA                          |
|                |  | <a href="#">FirePro W2100</a>                           |                       |                   |               | 857                                  | 1258                   | <a href="#">14.54</a>              | <a href="#">\$59.00*</a>    |
|                |  | <a href="#">Qualcomm Adreno 680 GPU</a>                 |                       |                   |               | 857                                  | 1259                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 A10-9700E RADEON</a>              |                       |                   |               | 857                                  | 1260                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 8470D + HD 6450 Dual</a>          |                       |                   |               | 862                                  | 1257                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon 520</a>                              |                       |                   |               | 863                                  | 1256                   | <a href="#">9.60</a>               | <a href="#">\$89.99*</a>    |
|                |  | <a href="#">Intel HD 520</a>                            |                       |                   |               | 864                                  | 1255                   | NA                                 | NA                          |
|                |  | <a href="#">Mobility Radeon HD 4850</a>                 |                       |                   |               | 866                                  | 1254                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 8570D + HD 6570 Dual</a>          |                       |                   |               | 868                                  | 1253                   | NA                                 | NA                          |
|                |  | <a href="#">Intel UHD Graphics 617</a>                  |                       |                   |               | 869                                  | 1252                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 G</a>                             |                       |                   |               | 869                                  | 1251                   | NA                                 | NA                          |
|                |  | <a href="#">GRID M10-0B</a>                             |                       |                   |               | 870                                  | 1250                   | NA                                 | NA                          |
|                |  | <a href="#">Intel HD 6000</a>                           |                       |                   |               | 875                                  | 1248                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 A8-7500</a>                       |                       |                   |               | 875                                  | 1249                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon E6760</a>                            |                       |                   |               | 876                                  | 1247                   | <a href="#">3.65</a>               | <a href="#">\$239.99*</a>   |
|                |  | <a href="#">Radeon R7 PRO A12-9800</a>                  |                       |                   |               | 877                                  | 1246                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 7660G + HD 7730M Dual</a>         |                       |                   |               | 881                                  | 1245                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 8650G + 7670M Dual</a>            |                       |                   |               | 883                                  | 1244                   | NA                                 | NA                          |
|                |  | Videocard Name                                          |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">Radeon R7 + R5 435 Dual A10-9700 RADEON</a> |                       |                   |               | 885                                  | 1243                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon Vega 3</a>                           |                       |                   |               | 888                                  | 1242                   | <a href="#">0.33</a>               | <a href="#">\$2,677.99*</a> |
|                |  | <a href="#">7900 MOD - Radeon HD 6550D</a>              |                       |                   |               | 892                                  | 1241                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 PRO A8-9600</a>                   |                       |                   |               | 893                                  | 1240                   | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 240</a>                           |                       |                   |               | 895                                  | 1239                   | <a href="#">10.59</a>              | <a href="#">\$84.56*</a>    |

|                   |                          | Videocard Name                                                     | Passmark<br>G3D Mark<br>(higher is better) | Rank<br>(lower is better) | Videocard<br>Value<br>(higher is better) | Price<br>(USD)            |                       |                   |
|-------------------|--------------------------|--------------------------------------------------------------------|--------------------------------------------|---------------------------|------------------------------------------|---------------------------|-----------------------|-------------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks                                           | Memory<br>Benchmarks                       | PC<br>Benchmarks          | Software<br>Marketshare                  | Database<br>Benchmarks    | Android<br>Benchmarks | iOS<br>Benchmarks |
|                   |                          | <a href="#">Radeon R7 + R5 Dual</a>                                | 897                                        | 1236                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Barco MXRT 2600</a>                                    | 900                                        | 1235                      | <a href="#">4.52</a>                     | <a href="#">\$199.00*</a> |                       |                   |
|                   |                          | <a href="#">Barco MXRT 7400</a>                                    | 900                                        | 1233                      | <a href="#">9.10</a>                     | <a href="#">\$99.00*</a>  |                       |                   |
|                   |                          | <a href="#">Radeon R7 M440</a>                                     | 900                                        | 1234                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon HD 8550G + 7600M Dual</a>                       | 901                                        | 1232                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 PRO A12-8870E</a>                            | 905                                        | 1231                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R5 430</a>                                      | 906                                        | 1229                      | <a href="#">15.36</a>                    | <a href="#">\$59.00*</a>  |                       |                   |
|                   |                          | <a href="#">Radeon RX Vega 6 Ryzen 3 3200U</a>                     | 906                                        | 1230                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon HD 7690M</a>                                    | 909                                        | 1228                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">GRID M6-0B</a>                                         | 911                                        | 1226                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon 6750M</a>                                       | 911                                        | 1227                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">GRID K220Q</a>                                         | 912                                        | 1225                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 A8-8650</a>                                  | 912                                        | 1224                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 A12-9800E RADEON</a>                         | 913                                        | 1223                      | <a href="#">6.56</a>                     | <a href="#">\$139.19*</a> |                       |                   |
|                   |                          | <a href="#">Radeon R7 A10-9700 RADEON</a>                          | 916                                        | 1222                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 240 + HD 8570D Dual</a>                      | 917                                        | 1220                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 PRO A10-8770</a>                             | 917                                        | 1221                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon 620</a>                                         | 922                                        | 1219                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 A10-7860K</a>                                | 922                                        | 1218                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Intel HD Graphics 620</a>                              | 924                                        | 1217                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Intel Iris Pro 6100</a>                                | 925                                        | 1216                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">GeForce GT 640M</a>                                    | 927                                        | 1215                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R5 A6-9500 RADEON R5, 8 COMPUTE CORES 2C+6G</a> | 928                                        | 1214                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 240 + HD 8670D Dual</a>                      | 930                                        | 1213                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon HD 7660G + 7730M Dual</a>                       | 931                                        | 1212                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R7 PRO A10-9700E</a>                            | 933                                        | 1211                      | <a href="#">1.76</a>                     | <a href="#">\$529.00*</a> |                       |                   |
|                   |                          | <a href="#">GeForce GT 645M</a>                                    | 934                                        | 1210                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon HD 7560D + HD 8570 Dual</a>                     | 935                                        | 1207                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon R5 340</a>                                      | 935                                        | 1208                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon Vega 3 Athlon PRO 300GE w/</a>                  | 935                                        | 1209                      | NA                                       | NA                        |                       |                   |
|                   |                          | <a href="#">Radeon HD 4850</a>                                     | 936                                        | 1206                      | <a href="#">6.69</a>                     | <a href="#">\$139.99*</a> |                       |                   |

| Videocard Name                                            | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)             |
|-----------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|----------------------------|
| <u>Radeon HD 8570</u>                                     | 941                                           | 1203                         | <a href="#">9.54</a>                        | <a href="#">\$98.68*</a>   |
| <u>Radeon R7 PRO A12-8870</u>                             | 941                                           | 1204                         | NA                                          | NA                         |
| <u>Radeon HD 6670/7670</u>                                | 945                                           | 1198                         | NA                                          | NA                         |
| <u>Radeon HD 7640G + 7690M Dual</u>                       | 945                                           | 1199                         | NA                                          | NA                         |
| <u>Radeon R7 M445</u>                                     | 945                                           | 1200                         | <a href="#">1.27</a>                        | <a href="#">\$744.00*</a>  |
| <u>Radeon R7 PRO A10-8850B</u>                            | 945                                           | 1201                         | NA                                          | NA                         |
| <u>Quadro 2000</u>                                        | 946                                           | 1197                         | <a href="#">4.44</a>                        | <a href="#">\$213.23*</a>  |
| <u>Quadro CX</u>                                          | 947                                           | 1196                         | <a href="#">6.32</a>                        | <a href="#">\$149.95*</a>  |
| <u>Radeon HD 8570 + HD 7660D Dual</u>                     | 949                                           | 1195                         | NA                                          | NA                         |
| Videocard Name                                            | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)             |
| <u>Radeon HD 8670D + R7 200 Dual</u>                      | 949                                           | 1194                         | NA                                          | NA                         |
| <u>Radeon R7 A10-7850K</u>                                | 949                                           | 1193                         | NA                                          | NA                         |
| <u>Radeon R7 PRO A12-9800E</u>                            | 954                                           | 1192                         | NA                                          | NA                         |
| <u>Radeon R6 Opteron X3418</u>                            | 955                                           | 1191                         | NA                                          | NA                         |
| <u>Radeon HD 8570D + R7 240 Dual</u>                      | 963                                           | 1190                         | NA                                          | NA                         |
| <u>Radeon HD 6770M</u>                                    | 964                                           | 1189                         | NA                                          | NA                         |
| <u>Radeon HD 7660G N HD 7660G + HD 7700M N HD 7700M D</u> | 966                                           | 1188                         | NA                                          | NA                         |
| <u>Radeon R6 A10-9600P 4C+6G</u>                          | 970                                           | 1187                         | NA                                          | NA                         |
| <u>Radeon HD 8850M</u>                                    | 973                                           | 1186                         | NA                                          | NA                         |
| <u>Radeon R9 M375</u>                                     | 973                                           | 1185                         | NA                                          | NA                         |
| <u>Radeon HD 8670D + 8570 Dual</u>                        | 974                                           | 1184                         | NA                                          | NA                         |
| <u>Qualcomm Adreno 685 GPU</u>                            | 975                                           | 1183                         | NA                                          | NA                         |
| <u>Radeon R5 A10-9630P 4C+6G</u>                          | 977                                           | 1182                         | NA                                          | NA                         |
| <u>Quadro 2000D</u>                                       | 978                                           | 1181                         | <a href="#">1.72</a>                        | <a href="#">\$568.77</a>   |
| <u>Radeon HD 7560D + 7560D Dual</u>                       | 982                                           | 1179                         | NA                                          | NA                         |
| <u>Radeon Vega 3 Athlon 3000G</u>                         | 982                                           | 1180                         | NA                                          | NA                         |
| <u>Radeon HD 8690M</u>                                    | 984                                           | 1178                         | NA                                          | NA                         |
| <u>Radeon R5 PRO A6-8570 R5, 8 COMPUTE CORES 2C+6G</u>    | 984                                           | 1177                         | NA                                          | NA                         |
| <u>Radeon HD 7560D + 7570 Dual</u>                        | 985                                           | 1176                         | NA                                          | NA                         |
| <u>Quadro FX 4800</u>                                     | 986                                           | 1175                         | <a href="#">0.60</a>                        | <a href="#">\$1,653.43</a> |

| Videocard Name                                                | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|---------------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">FirePro V4900</a>                                 | 990                                           | 1172                         | <a href="#">6.60</a>                        | <a href="#">\$149.99*</a> |
| <a href="#">Radeon R7 A265</a>                                | 993                                           | 1171                         | NA                                          | NA                        |
| <a href="#">Quadro 3000M</a>                                  | 994                                           | 1170                         | <a href="#">14.21</a>                       | <a href="#">\$69.99*</a>  |
| <a href="#">Intel HD 530</a>                                  | 996                                           | 1168                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7640G + HD 8750M Dual</a>               | 996                                           | 1169                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + HD 7500M/7600M Dual</a>         | 999                                           | 1167                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8570D + R7 200 Dual</a>                 | 999                                           | 1166                         | NA                                          | NA                        |
| <a href="#">Radeon R7 340</a>                                 | 1000                                          | 1165                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7660G + HD 7500/7600 7500/7600 Dual</a> | 1002                                          | 1164                         | NA                                          | NA                        |
| <a href="#">Radeon R7 A10-7890K</a>                           | 1002                                          | 1163                         | NA                                          | NA                        |
| <a href="#">GeForce 830M</a>                                  | 1006                                          | 1162                         | NA                                          | NA                        |
| <a href="#">Glenfly Arise-GT-10C0</a>                         | 1007                                          | 1161                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7690M XT</a>                            | 1009                                          | 1160                         | NA                                          | NA                        |
| <a href="#">Quadro K2000M</a>                                 | 1010                                          | 1159                         | <a href="#">7.02</a>                        | <a href="#">\$144.04*</a> |
| <a href="#">GeForce 930M</a>                                  | 1012                                          | 1158                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8750M</a>                               | 1013                                          | 1157                         | NA                                          | NA                        |
| <a href="#">Radeon R5 A6-9500E 2C+4G</a>                      | 1014                                          | 1156                         | NA                                          | NA                        |
| <a href="#">Radeon R7 A12-9730P RADEON</a>                    | 1014                                          | 1155                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6700M</a>                               | 1016                                          | 1154                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8670D + R7 240 Dual</a>                 | 1020                                          | 1153                         | NA                                          | NA                        |
| <a href="#">Radeon 530</a>                                    | 1026                                          | 1152                         | NA                                          | NA                        |
| <a href="#">Radeon R7 + R5 330 Dual</a>                       | 1028                                          | 1151                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8600/8700M</a>                          | 1029                                          | 1150                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8570D + HD 8570 Dual</a>                | 1032                                          | 1149                         | NA                                          | NA                        |
| <a href="#">Radeon Vega 3 Mobile</a>                          | 1034                                          | 1148                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8570D + 6670 Dual</a>                   | 1039                                          | 1147                         | NA                                          | NA                        |
| <a href="#">Radeon HD 6750</a>                                | 1041                                          | 1146                         | <a href="#">13.02</a>                       | <a href="#">\$79.99*</a>  |
| Videocard Name                                                | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Intel UHD Graphics 620</a>                        | 1042                                          | 1144                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M460</a>                                | 1042                                          | 1145                         | NA                                          | NA                        |
| <a href="#">Radeon Vega 3 Athlon 300GE</a>                    | 1044                                          | 1143                         | NA                                          | NA                        |

|                   |                          | Videocard Name           | Passmark<br>G3D Mark<br>(higher is<br>better)     | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)         |                           |                   |
|-------------------|--------------------------|--------------------------|---------------------------------------------------|------------------------------|---------------------------------------------|------------------------|---------------------------|-------------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks                              | PC<br>Benchmarks             | Software<br>Marketshare                     | Database<br>Benchmarks | Android<br>Benchmarks     | iOS<br>Benchmarks |
|                   |                          |                          | <a href="#">Radeon R7 250</a>                     | 1045                         | 1142                                        | <a href="#">10.45</a>  | <a href="#">\$99.99*</a>  |                   |
|                   |                          |                          | <a href="#">GeForce GTX 850A</a>                  | 1049                         | 1138                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Qualcomm Adreno 690 GPU</a>           | 1049                         | 1139                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon HD 7670A</a>                   | 1050                         | 1137                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">OPAL XT/GL</a>                        | 1053                         | 1136                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Firepro M4100</a>                     | 1059                         | 1135                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon HD 7520G + 7700M Dual</a>      | 1060                         | 1134                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon HD 7660D + 7670 Dual</a>       | 1061                         | 1133                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon 535</a>                        | 1062                         | 1132                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon R7 A12-9800 RADEON</a>         | 1066                         | 1131                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon HD 8450G + 8600/8700M Dual</a> | 1070                         | 1130                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">GeForce 920MX</a>                     | 1075                         | 1129                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon R7 + R7 200 Dual</a>           | 1077                         | 1128                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Barco MXRT 5450</a>                   | 1079                         | 1127                                        | <a href="#">5.40</a>   | <a href="#">\$199.99*</a> |                   |
|                   |                          |                          | <a href="#">MIRRORV3</a>                          | 1080                         | 1126                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon 625</a>                        | 1082                         | 1125                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Intel UHD Graphics 710</a>            | 1084                         | 1124                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Quadro K1100M</a>                     | 1087                         | 1123                                        | <a href="#">3.37</a>   | <a href="#">\$322.99*</a> |                   |
|                   |                          |                          | <a href="#">Radeon Vega 3 Athlon Gold 3150G</a>   | 1088                         | 1122                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">GeForce GTX 850M - MODDED</a>         | 1091                         | 1121                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Mobility Radeon HD 5870</a>           | 1092                         | 1120                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon R7 430</a>                     | 1093                         | 1119                                        | <a href="#">7.26</a>   | <a href="#">\$150.58*</a> |                   |
|                   |                          |                          | <a href="#">GeForce 840M</a>                      | 1095                         | 1117                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">GeForce GT 745M</a>                   | 1095                         | 1118                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon R5 PRO A6-9500 2C+6G</a>       | 1096                         | 1116                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon R7 A10-7870K</a>               | 1099                         | 1115                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Quadro 2100M</a>                      | 1100                         | 1114                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon HD 7660D + 6570 Dual</a>       | 1100                         | 1113                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">GeForce GT 545</a>                    | 1104                         | 1112                                        | <a href="#">19.87</a>  | <a href="#">\$55.59*</a>  |                   |
|                   |                          |                          | <a href="#">GeForce 940A</a>                      | 1106                         | 1111                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Radeon 610M</a>                       | 1109                         | 1110                                        | NA                     | NA                        |                   |
|                   |                          |                          | <a href="#">Intel HD 630</a>                      | 1112                         | 1109                                        | NA                     | NA                        |                   |

| Videocard Name                               | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|----------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Radeon HD 7660D + 7500 Dual</a>  | 1121                                          | 1106                         | NA                                          | NA                        |
| <a href="#">GeForce 840A</a>                 | 1123                                          | 1105                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8650G + 7700M Dual</a> | 1126                                          | 1104                         | NA                                          | NA                        |
| <a href="#">GeForce 940M</a>                 | 1127                                          | 1103                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7560D + 6670 Dual</a>  | 1130                                          | 1102                         | NA                                          | NA                        |
| <a href="#">Radeon HD 4850 X2</a>            | 1132                                          | 1101                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M465</a>               | 1134                                          | 1100                         | NA                                          | NA                        |
| <a href="#">Radeon R7 Opteron X3421</a>      | 1135                                          | 1099                         | NA                                          | NA                        |
| <a href="#">Radeon HD 8850M / R9 M265X</a>   | 1139                                          | 1098                         | NA                                          | NA                        |
| <a href="#">Radeon Ryzen 5 3450U</a>         | 1142                                          | 1097                         | NA                                          | NA                        |
| Videocard Name                               | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Firepro W4190M</a>               | 1155                                          | 1095                         | NA                                          | NA                        |
| <a href="#">Radeon R9 M265X</a>              | 1155                                          | 1096                         | NA                                          | NA                        |
| <a href="#">Intel Coffee Lake UHD</a>        | 1158                                          | 1094                         | NA                                          | NA                        |
| <a href="#">Barco MXRT 5400</a>              | 1161                                          | 1093                         | <a href="#">5.72</a>                        | <a href="#">\$203.00*</a> |
| <a href="#">Intel HD P530</a>                | 1161                                          | 1092                         | NA                                          | NA                        |
| <a href="#">Quadro M500M</a>                 | 1162                                          | 1091                         | NA                                          | NA                        |
| <a href="#">FireStream 9250</a>              | 1164                                          | 1090                         | NA                                          | NA                        |
| <a href="#">Quadro K620M</a>                 | 1165                                          | 1089                         | NA                                          | NA                        |
| <a href="#">Radeon HD 5750</a>               | 1166                                          | 1088                         | <a href="#">10.13</a>                       | <a href="#">\$115.15</a>  |
| <a href="#">GeForce GT 640</a>               | 1174                                          | 1087                         | <a href="#">10.68</a>                       | <a href="#">\$109.99*</a> |
| <a href="#">FirePro V5800</a>                | 1175                                          | 1086                         | <a href="#">22.18</a>                       | <a href="#">\$53.00*</a>  |
| <a href="#">Intel Iris Pro 5200</a>          | 1181                                          | 1085                         | NA                                          | NA                        |
| <a href="#">GeForce GPU</a>                  | 1182                                          | 1084                         | NA                                          | NA                        |
| <a href="#">Radeon R7 M350</a>               | 1186                                          | 1083                         | NA                                          | NA                        |
| <a href="#">GeForce 830A</a>                 | 1187                                          | 1082                         | NA                                          | NA                        |
| <a href="#">NVS 810</a>                      | 1190                                          | 1081                         | <a href="#">1.90</a>                        | <a href="#">\$624.99*</a> |
| <a href="#">Radeon R7 +8G</a>                | 1190                                          | 1080                         | NA                                          | NA                        |
| <a href="#">Radeon HD 7750M</a>              | 1191                                          | 1079                         | NA                                          | NA                        |
| <a href="#">FirePro M4170</a>                | 1202                                          | 1078                         | NA                                          | NA                        |
| <a href="#">Intel HD P630</a>                | 1203                                          | 1077                         | NA                                          | NA                        |

| Videocard Name                        | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
|---------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| <u>Radeon HD 7660D + 7540D Dual</u>   | 1204                                          | 1075                         | NA                                          | NA                          |
| <u>Radeon R9 M270X</u>                | 1204                                          | 1076                         | NA                                          | NA                          |
| <u>FirePro 3D V8700</u>               | 1206                                          | 1071                         | <a href="#">7.09</a>                        | <a href="#">\$170.07*</a>   |
| <u>GeForce GTX 295</u>                | 1206                                          | 1072                         | <a href="#">7.54</a>                        | <a href="#">\$159.99*</a>   |
| <u>Radeon HD 7730</u>                 | 1207                                          | 1070                         | <a href="#">5.19</a>                        | <a href="#">\$232.70*</a>   |
| <u>Radeon HD 8790M / R9 M290X</u>     | 1210                                          | 1069                         | NA                                          | NA                          |
| <u>GeForce GTX 460M</u>               | 1215                                          | 1068                         | NA                                          | NA                          |
| <u>GeForce GTX 260</u>                | 1216                                          | 1067                         | <a href="#">4.26</a>                        | <a href="#">\$285.78*</a>   |
| <u>Quadro FX 5800</u>                 | 1221                                          | 1066                         | <a href="#">4.46</a>                        | <a href="#">\$274.00*</a>   |
| <u>Radeon HD 8670D + HD 6670 Dual</u> | 1221                                          | 1065                         | NA                                          | NA                          |
| <u>GeForce GTX 760A</u>               | 1226                                          | 1064                         | NA                                          | NA                          |
| <u>FirePro 3D V5800</u>               | 1231                                          | 1063                         | <a href="#">6.04</a>                        | <a href="#">\$204.00*</a>   |
| <u>Radeon R7 + R7 250 Dual</u>        | 1232                                          | 1062                         | NA                                          | NA                          |
| <u>Radeon R7 + R5 340 Dual</u>        | 1234                                          | 1061                         | NA                                          | NA                          |
| <u>GeForce GT 745A</u>                | 1237                                          | 1059                         | NA                                          | NA                          |
| <u>Radeon HD 7560D + HD 6570 Dual</u> | 1237                                          | 1060                         | NA                                          | NA                          |
| <u>Intel UHD Graphics 630</u>         | 1238                                          | 1057                         | NA                                          | NA                          |
| <u>Radeon HD 7660D + 6670 Dual</u>    | 1238                                          | 1058                         | NA                                          | NA                          |
| <u>Quadro 2000 D</u>                  | 1239                                          | 1055                         | NA                                          | NA                          |
| <u>Radeon HD 8570D + 6570 Dual</u>    | 1239                                          | 1056                         | NA                                          | NA                          |
| <u>Radeon HD 6770</u>                 | 1255                                          | 1054                         | <a href="#">4.74</a>                        | <a href="#">\$264.99*</a>   |
| <u>Radeon Vega 8 Ryzen 5 3450U</u>    | 1255                                          | 1053                         | NA                                          | NA                          |
| <u>Intel Iris 540</u>                 | 1257                                          | 1052                         | NA                                          | NA                          |
| <u>Radeon HD 7560D + HD 7600 Dual</u> | 1258                                          | 1051                         | NA                                          | NA                          |
| <u>Radeon HD 8570D + HD 6670 Dual</u> | 1260                                          | 1050                         | NA                                          | NA                          |
| <u>FirePro V5900</u>                  | 1263                                          | 1049                         | <a href="#">14.69</a>                       | <a href="#">\$86.00*</a>    |
| <u>GeForce 930A</u>                   | 1267                                          | 1048                         | NA                                          | NA                          |
| Videocard Name                        | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <u>GeForce GTX 560M</u>               | 1267                                          | 1047                         | NA                                          | NA                          |
| <u>FirePro 3D V8750</u>               | 1271                                          | 1046                         | <a href="#">1.03</a>                        | <a href="#">\$1,230.99*</a> |
| <u>Radeon Vega 6 Ryzen 3 3300U</u>    | 1273                                          | 1045                         | NA                                          | NA                          |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                           |      |      |                      |                             |
|-----------------------------------------------------------|------|------|----------------------|-----------------------------|
| <u>MxGPU</u>                                              | 1282 | 1042 | NA                   | NA                          |
| <u>GeForce 930MX</u>                                      | 1283 | 1041 | NA                   | NA                          |
| <u>GeForce GTX 280</u>                                    | 1285 | 1040 | <a href="#">2.46</a> | <a href="#">\$522.78*</a>   |
| <u>TENSOR 1.0 Driver Intel HD 630</u>                     | 1299 | 1039 | NA                   | NA                          |
| <u>Radeon Vega 6</u>                                      | 1304 | 1038 | <a href="#">0.72</a> | <a href="#">\$1,799.99*</a> |
| <u>Radeon HD 8790M</u>                                    | 1305 | 1037 | NA                   | NA                          |
| <u>Tesla M2070-Q</u>                                      | 1305 | 1036 | NA                   | NA                          |
| <u>Radeon HD 4870 X2</u>                                  | 1309 | 1035 | NA                   | NA                          |
| <u>Radeon R7 PRO A8-8670E</u>                             | 1309 | 1034 | NA                   | NA                          |
| <u>FirePro M5950</u>                                      | 1314 | 1033 | NA                   | NA                          |
| <u>GeForce GTS 450</u>                                    | 1316 | 1032 | <a href="#">9.81</a> | <a href="#">\$134.23*</a>   |
| <u>Radeon HD 8670D + HD 7600 Dual</u>                     | 1317 | 1031 | NA                   | NA                          |
| <u>GeForce GT 750M</u>                                    | 1333 | 1030 | NA                   | NA                          |
| <u>FireStream 9270</u>                                    | 1341 | 1029 | NA                   | NA                          |
| <u>Radeon HD 5770</u>                                     | 1342 | 1028 | <a href="#">7.07</a> | <a href="#">\$189.99*</a>   |
| <u>Radeon HD 7560D + HD 7700 Dual</u>                     | 1346 | 1027 | NA                   | NA                          |
| <u>Intel Iris Plus 640</u>                                | 1356 | 1026 | NA                   | NA                          |
| <u>Quadro K2100M</u>                                      | 1357 | 1025 | <a href="#">3.26</a> | <a href="#">\$415.99*</a>   |
| <u>Radeon Vega 6 Ryzen 3 PRO 3300U w/</u>                 | 1360 | 1024 | NA                   | NA                          |
| <u>Radeon HD 8670D + 6670 Dual</u>                        | 1361 | 1023 | NA                   | NA                          |
| <u>FirePro M40003</u>                                     | 1364 | 1022 | NA                   | NA                          |
| <u>Ryzen 3 4300U with Radeon Graphics</u>                 | 1370 | 1021 | NA                   | NA                          |
| <u>Radeon HD 7850M</u>                                    | 1372 | 1019 | NA                   | NA                          |
| <u>Radeon Vega 8 Ryzen 5 3500U</u>                        | 1372 | 1020 | NA                   | NA                          |
| <u>Radeon HD 4870</u>                                     | 1380 | 1018 | <a href="#">9.20</a> | <a href="#">\$149.99</a>    |
| <u>Radeon HD 7560D + HD 7670 Dual</u>                     | 1380 | 1017 | NA                   | NA                          |
| <u>Radeon Ryzen 7 3700U</u>                               | 1381 | 1016 | NA                   | NA                          |
| <u>GeForce GTX 275</u>                                    | 1383 | 1014 | <a href="#">3.21</a> | <a href="#">\$431.72*</a>   |
| <u>Radeon 540</u>                                         | 1383 | 1015 | NA                   | NA                          |
| <u>Radeon 550X</u>                                        | 1398 | 1013 | NA                   | NA                          |
| <u>Radeon RX Vega11 Ryzen 7 Microsoft Surface Edition</u> | 1398 | 1012 | NA                   | NA                          |
| <u>FirePro W5130M</u>                                     | 1409 | 1010 | NA                   | NA                          |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                        |                                      |                        |                                    |                           |
|--------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <u>Radeon R9 255</u>                                   | 1420                                 | 1008                   | <a href="#">4.13</a>               | <a href="#">\$344.16*</a> |
| <u>Radeon Vega 8 Mobile</u>                            | 1422                                 | 1007                   | NA                                 | NA                        |
| <u>Radeon EPYC 4244P 6-Core</u>                        | 1424                                 | 1006                   | NA                                 | NA                        |
| <u>GeForce MX110</u>                                   | 1426                                 | 1004                   | NA                                 | NA                        |
| <u>Radeon HD 7560D + 7670 Dual</u>                     | 1426                                 | 1005                   | NA                                 | NA                        |
| <u>Radeon Ryzen 3 PRO 4355GE</u>                       | 1431                                 | 1003                   | NA                                 | NA                        |
| <u>Ryzen 3 PRO 5475U with Radeon Graphics</u>          | 1431                                 | 1002                   | NA                                 | NA                        |
| <u>Intel Iris 650</u>                                  | 1432                                 | 1001                   | NA                                 | NA                        |
| <u>Intel Iris 550</u>                                  | 1433                                 | 1000                   | NA                                 | NA                        |
| <u>Radeon HD 8470D + HD 6670 Dual</u>                  | 1435                                 | 999                    | NA                                 | NA                        |
| Videocard Name                                         | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <u>Radeon 540X</u>                                     | 1437                                 | 998                    | NA                                 | NA                        |
| <u>Ryzen 5 PRO 4400GE with Radeon Graphics</u>         | 1441                                 | 997                    | NA                                 | NA                        |
| <u>Radeon Ryzen Embedded R2514</u>                     | 1444                                 | 996                    | NA                                 | NA                        |
| <u>GeForce GTX 660M</u>                                | 1451                                 | 995                    | <a href="#">18.38</a>              | <a href="#">\$78.99*</a>  |
| <u>Radeon Vega 9 Ryzen 5 Microsoft Surface Edition</u> | 1453                                 | 994                    | NA                                 | NA                        |
| <u>Radeon RX Vega 10 Ryzen 7 PRO 3700U w/</u>          | 1456                                 | 993                    | NA                                 | NA                        |
| <u>Radeon Ryzen 5 PRO 5655GE</u>                       | 1462                                 | 992                    | NA                                 | NA                        |
| <u>Radeon R7 FX-9830P RADEON</u>                       | 1464                                 | 991                    | NA                                 | NA                        |
| <u>Intel Iris Pro Graphics 6200</u>                    | 1471                                 | 990                    | NA                                 | NA                        |
| <u>Quadro 4000</u>                                     | 1474                                 | 989                    | <a href="#">2.98</a>               | <a href="#">\$495.00*</a> |
| <u>GeForce GT 740</u>                                  | 1478                                 | 988                    | <a href="#">6.24</a>               | <a href="#">\$236.99*</a> |
| <u>Radeon R9 M365X</u>                                 | 1481                                 | 987                    | NA                                 | NA                        |
| <u>Radeon HD 7660D + HD 6670 Dual</u>                  | 1484                                 | 986                    | NA                                 | NA                        |
| <u>Radeon Vega 8 Ryzen 5 PRO 3500U w/</u>              | 1486                                 | 985                    | NA                                 | NA                        |
| <u>Intel UHD Graphics</u>                              | 1491                                 | 984                    | NA                                 | NA                        |
| <u>Radeon HD 6670 + 7660D Dual</u>                     | 1492                                 | 983                    | NA                                 | NA                        |
| <u>Radeon RX Vega 8</u>                                | 1493                                 | 982                    | NA                                 | NA                        |
| <u>GeForce GTX 285</u>                                 | 1502                                 | 981                    | <a href="#">12.52</a>              | <a href="#">\$119.99*</a> |
| <u>Ryzen 5 2500U with Radeon Vega</u>                  | 1503                                 | 980                    | NA                                 | NA                        |
| <u>Radeon HD 7870M</u>                                 | 1507                                 | 979                    | NA                                 | NA                        |

| Videocard Name                                         | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|--------------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">GeForce 940MX</a>                          | 1516                                          | 976                          | NA                                          | NA                        |
| <a href="#">FirePro W4100</a>                          | 1521                                          | 975                          | <a href="#">8.27</a>                        | <a href="#">\$184.00*</a> |
| <a href="#">GeForce 845M</a>                           | 1524                                          | 974                          | NA                                          | NA                        |
| <a href="#">Radeon Vega 10 Mobile</a>                  | 1526                                          | 973                          | NA                                          | NA                        |
| <a href="#">Radeon Ryzen Embedded V2516</a>            | 1527                                          | 972                          | NA                                          | NA                        |
| <a href="#">Ryzen 3 5300U with Radeon Graphics</a>     | 1527                                          | 971                          | NA                                          | NA                        |
| <a href="#">Radeon HD 4890</a>                         | 1532                                          | 970                          | <a href="#">17.03</a>                       | <a href="#">\$89.99*</a>  |
| <a href="#">Radeon Ryzen 3 5425U</a>                   | 1537                                          | 969                          | NA                                          | NA                        |
| <a href="#">FirePro V8700</a>                          | 1538                                          | 968                          | <a href="#">9.75</a>                        | <a href="#">\$157.88*</a> |
| <a href="#">Radeon Ryzen 3 PRO 5475U</a>               | 1541                                          | 967                          | NA                                          | NA                        |
| <a href="#">Radeon Vega 6 Ryzen 3 3350U</a>            | 1541                                          | 965                          | NA                                          | NA                        |
| <a href="#">Ryzen 3 PRO 4450U with Radeon Graphics</a> | 1541                                          | 966                          | NA                                          | NA                        |
| <a href="#">Ryzen 3 PRO 4300U with Radeon Graphics</a> | 1542                                          | 964                          | NA                                          | NA                        |
| <a href="#">Radeon HD 8470D + HD 7500 Dual</a>         | 1545                                          | 963                          | NA                                          | NA                        |
| <a href="#">Radeon Ryzen 5 PRO 7645 6-Core</a>         | 1552                                          | 962                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 550 Ti</a>                     | 1554                                          | 960                          | <a href="#">15.55</a>                       | <a href="#">\$99.99*</a>  |
| <a href="#">Radeon HD 7560D + HD 6670 Dual</a>         | 1554                                          | 961                          | NA                                          | NA                        |
| <a href="#">Radeon Vega 10</a>                         | 1557                                          | 959                          | NA                                          | NA                        |
| <a href="#">Radeon R9 M370X</a>                        | 1564                                          | 958                          | <a href="#">1.76</a>                        | <a href="#">\$889.00*</a> |
| <a href="#">GeForce GTX 555</a>                        | 1571                                          | 956                          | NA                                          | NA                        |
| <a href="#">Radeon Vega 9 Ryzen 5 3550H</a>            | 1571                                          | 957                          | NA                                          | NA                        |
| <a href="#">Radeon Athlon Gold PRO 4150GE</a>          | 1573                                          | 955                          | NA                                          | NA                        |
| <a href="#">Radeon R9 M275X / M375</a>                 | 1574                                          | 954                          | NA                                          | NA                        |
| <a href="#">Quadro K2000</a>                           | 1576                                          | 953                          | <a href="#">5.36</a>                        | <a href="#">\$294.00*</a> |
| <a href="#">Radeon Vega 8</a>                          | 1580                                          | 952                          | <a href="#">12.46</a>                       | <a href="#">\$126.86*</a> |
| <a href="#">Quadro K2000D</a>                          | 1586                                          | 951                          | <a href="#">4.67</a>                        | <a href="#">\$339.99*</a> |
| <a href="#">Radeon Vega 10 Ryzen 7 PRO 3700U w/</a>    | 1587                                          | 950                          | NA                                          | NA                        |
| Videocard Name                                         | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Radeon Vega 9</a>                          | 1587                                          | 949                          | NA                                          | NA                        |
| <a href="#">Radeon HD 6790</a>                         | 1588                                          | 948                          | <a href="#">5.40</a>                        | <a href="#">\$294.00*</a> |
| <a href="#">Intel UHD Graphics 730</a>                 | 1593                                          | 947                          | NA                                          | NA                        |

| Videocard Name                                                                 | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
|--------------------------------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Intel Iris Pro P6300</a>                                           | 1596                                 | 944                    | NA                                 | NA                        |
| <a href="#">Ryzen 3 5400U with Radeon Graphics</a>                             | 1596                                 | 943                    | NA                                 | NA                        |
| <a href="#">Ryzen 3 PRO 5450U with Radeon Graphics</a>                         | 1601                                 | 942                    | NA                                 | NA                        |
| <a href="#">Intel Iris Plus 650</a>                                            | 1603                                 | 941                    | NA                                 | NA                        |
| <a href="#">Seria Radeon HD 7700</a>                                           | 1603                                 | 940                    | NA                                 | NA                        |
| <a href="#">Radeon RX Vega11</a>                                               | 1605                                 | 939                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4464P 12-Core</a>                                      | 1613                                 | 938                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4124P 4-Core</a>                                       | 1614                                 | 937                    | NA                                 | NA                        |
| <a href="#">GeForce GTX 480M</a>                                               | 1617                                 | 936                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 3 5300U</a>                                           | 1617                                 | 934                    | NA                                 | NA                        |
| <a href="#">Ryzen 7 2700U with Radeon Vega</a>                                 | 1617                                 | 935                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4484PX 12-Core</a>                                     | 1619                                 | 933                    | NA                                 | NA                        |
| <a href="#">Radeon Vega 8 Ryzen 3 PRO 3200GE w/</a>                            | 1621                                 | 931                    | NA                                 | NA                        |
| <a href="#">RadeonT RX Vega 11</a>                                             | 1621                                 | 932                    | NA                                 | NA                        |
| <a href="#">FirePro M4000 Mobility Pro</a>                                     | 1629                                 | 930                    | NA                                 | NA                        |
| <a href="#">Radeon RX Vega 10</a>                                              | 1632                                 | 929                    | NA                                 | NA                        |
| <a href="#">Quadro P500</a>                                                    | 1633                                 | 928                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4344P 8-Core</a>                                       | 1634                                 | 927                    | NA                                 | NA                        |
| <a href="#">Radeon HD 8870M</a>                                                | 1638                                 | 926                    | NA                                 | NA                        |
| <a href="#">Qualcomm Adreno X1-45 GPU</a>                                      | 1640                                 | 925                    | NA                                 | NA                        |
| <a href="#">PCI\VEN_1002&amp;DEV_164E&amp;SUBSYS_D0001458&amp;REV_C7 Ryzen</a> | 1642                                 | 924                    | NA                                 | NA                        |
| <a href="#">Quadro K3000M</a>                                                  | 1646                                 | 923                    | <a href="#">4.04</a>               | <a href="#">\$407.56*</a> |
| <a href="#">Radeon 610M Ryzen 9 7940HX</a>                                     | 1647                                 | 922                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 7 PRO 7745 8-Core</a>                                 | 1648                                 | 921                    | NA                                 | NA                        |
| <a href="#">Quadro P400</a>                                                    | 1649                                 | 920                    | <a href="#">8.20</a>               | <a href="#">\$201.17*</a> |
| <a href="#">Ryzen 3 7330U with Radeon Graphics</a>                             | 1649                                 | 918                    | NA                                 | NA                        |
| <a href="#">Virtual Display Device</a>                                         | 1649                                 | 919                    | NA                                 | NA                        |
| <a href="#">Radeon HD HD7850M</a>                                              | 1651                                 | 917                    | NA                                 | NA                        |
| <a href="#">PCI\VEN_1002&amp;DEV_164E&amp;SUBSYS_D0001458&amp;REV_C3 Ryzen</a> | 1653                                 | 916                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4584PX 16-Core</a>                                     | 1661                                 | 915                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4364P 8-Core</a>                                       | 1667                                 | 914                    | NA                                 | NA                        |

| CPU Benchmarks |  |  |  |  | Video Card Benchmarks                |                        | Hard Drive Benchmarks              |  | Memory Benchmarks |  | PC Benchmarks |  | Software Marketshare |  | Database Benchmarks |  | Android Benchmarks |  | iOS Benchmarks |  |
|----------------|--|--|--|--|--------------------------------------|------------------------|------------------------------------|--|-------------------|--|---------------|--|----------------------|--|---------------------|--|--------------------|--|----------------|--|
| Videocard Name |  |  |  |  | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) |  | Price (USD)       |  |               |  |                      |  |                     |  |                    |  |                |  |

|                                                         |                                      |                        |                                    |                           |
|---------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Intel UHD Graphics P750</a>                 | 1670                                 | 911                    | NA                                 | NA                        |
| <a href="#">FirePro W600</a>                            | 1675                                 | 910                    | <a href="#">4.04</a>               | <a href="#">\$414.99*</a> |
| <a href="#">Radeon Ryzen 9 7950X3D 16-Core</a>          | 1677                                 | 909                    | NA                                 | NA                        |
| <a href="#">Radeon Vega 8 Ryzen 5 3550H</a>             | 1682                                 | 908                    | NA                                 | NA                        |
| <a href="#">Radeon E8860</a>                            | 1686                                 | 907                    | NA                                 | NA                        |
| <a href="#">Radeon HD 7750</a>                          | 1689                                 | 906                    | <a href="#">14.77</a>              | <a href="#">\$114.40</a>  |
| <a href="#">Quadro 5010M</a>                            | 1691                                 | 905                    | <a href="#">7.17</a>               | <a href="#">\$235.95*</a> |
| <a href="#">GeForce GT 755M</a>                         | 1694                                 | 904                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 7 7700 8-Core</a>              | 1695                                 | 903                    | NA                                 | NA                        |
| <a href="#">Radeon R9 M275X</a>                         | 1699                                 | 902                    | NA                                 | NA                        |
| <a href="#">Radeon HD 6900M</a>                         | 1701                                 | 901                    | NA                                 | NA                        |
| Videocard Name                                          | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">Radeon RX Vega11 Ryzen 7 3750H</a>          | 1711                                 | 900                    | NA                                 | NA                        |
| <a href="#">FirePro M6000 Mobility Pro</a>              | 1712                                 | 899                    | NA                                 | NA                        |
| <a href="#">Intel Iris Plus 645</a>                     | 1716                                 | 898                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 5 3550H</a>                    | 1716                                 | 897                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 3 7330U</a>                    | 1718                                 | 896                    | NA                                 | NA                        |
| <a href="#">Ryzen 5 PRO 5675U with Radeon Graphics</a>  | 1719                                 | 895                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 9 PRO 7945 12-Core</a>         | 1725                                 | 894                    | NA                                 | NA                        |
| <a href="#">GeForce GTX 760M</a>                        | 1729                                 | 892                    | NA                                 | NA                        |
| <a href="#">Intel UHD Graphics 750</a>                  | 1729                                 | 893                    | NA                                 | NA                        |
| <a href="#">Intel Iris Plus 655</a>                     | 1730                                 | 891                    | NA                                 | NA                        |
| <a href="#">Radeon HD 5830</a>                          | 1732                                 | 890                    | <a href="#">6.69</a>               | <a href="#">\$258.99*</a> |
| <a href="#">Radeon Ryzen 5 7600X 6-Core</a>             | 1734                                 | 889                    | NA                                 | NA                        |
| <a href="#">Ryzen 5 PRO 4650U with Radeon Graphics</a>  | 1744                                 | 888                    | NA                                 | NA                        |
| <a href="#">Ryzen 3 PRO 4200GE with Radeon Graphics</a> | 1748                                 | 887                    | NA                                 | NA                        |
| <a href="#">GeForce GTX 670M</a>                        | 1750                                 | 886                    | NA                                 | NA                        |
| <a href="#">GeForce GTX 650</a>                         | 1752                                 | 885                    | <a href="#">12.19</a>              | <a href="#">\$143.80*</a> |
| <a href="#">GRID M10-8Q</a>                             | 1755                                 | 884                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 3 PRO 5450U</a>                | 1757                                 | 883                    | NA                                 | NA                        |
| <a href="#">Radeon EPYC 4564P 16-Core</a>               | 1767                                 | 882                    | NA                                 | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks                                   | Hard Drive Benchmarks                | Memory Benchmarks | PC Benchmarks          | Software Marketshare               | Database Benchmarks       | Android Benchmarks | iOS Benchmarks |
|----------------|--|---------------------------------------------------------|--------------------------------------|-------------------|------------------------|------------------------------------|---------------------------|--------------------|----------------|
|                |  | Videocard Name                                          | Passmark G3D Mark (higher is better) |                   | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |                    |                |
|                |  | <a href="#">Radeon Ryzen 5 7600 6-Core</a>              | 1785                                 |                   | 879                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Embedded Radeon E9173</a>                   | 1787                                 |                   | 878                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon HD 8670D + 7700 Dual</a>             | 1788                                 |                   | 877                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Firepro W5170M</a>                          | 1792                                 |                   | 876                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon HD 8870M / R9 M270X / M370X</a>      | 1799                                 |                   | 875                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Vega 8 Ryzen 3 PRO 3200G</a>         | 1800                                 |                   | 874                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Ryzen 3 PRO 5350GE with Radeon Graphics</a> | 1801                                 |                   | 873                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon R9 M375X</a>                         | 1807                                 |                   | 872                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Intel Iris Plus</a>                         | 1812                                 |                   | 871                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Matrox C900 PCIe x16</a>                    | 1812                                 |                   | 870                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon R9 M360</a>                          | 1813                                 |                   | 869                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Ryzen 5 4500U with Radeon Graphics</a>      | 1817                                 |                   | 868                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">FirePro M6000</a>                           | 1820                                 |                   | 867                    | <a href="#">5.58</a>               | <a href="#">\$325.99*</a> |                    |                |
|                |  | <a href="#">Radeon Vega 11 Ryzen 5 PRO 3400GE w/</a>    | 1824                                 |                   | 866                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce MX130</a>                           | 1825                                 |                   | 865                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon RX Vega 10 Ryzen 7 3750H</a>         | 1826                                 |                   | 864                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce MX230</a>                           | 1828                                 |                   | 863                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon RX Vega 11 Processor</a>             | 1832                                 |                   | 862                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon HD 8570D + HD 7700 Dual</a>          | 1834                                 |                   | 861                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GRID M60-0B</a>                             | 1838                                 |                   | 860                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">FirePro M5100 FireGL V</a>                  | 1839                                 |                   | 859                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Ryzen Embedded V2748</a>             | 1842                                 |                   | 858                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Vega 11</a>                          | 1846                                 |                   | 857                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Pro WX 2100</a>                      | 1850                                 |                   | 856                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce 945A</a>                            | 1852                                 |                   | 855                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Ryzen 3 PRO 7330U</a>                | 1854                                 |                   | 854                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce GTX 570M</a>                        | 1863                                 |                   | 853                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Ryzen Embedded R2544</a>             | 1864                                 |                   | 852                    | NA                                 | NA                        |                    |                |
|                |  | Videocard Name                                          | Passmark G3D Mark (higher is better) |                   | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |                    |                |
|                |  | <a href="#">GeForce GTX 460 v2</a>                      | 1865                                 |                   | 851                    | <a href="#">9.33</a>               | <a href="#">\$199.99*</a> |                    |                |
|                |  | <a href="#">Radeon Ryzen 7 7800X3D 8-Core</a>           | 1865                                 |                   | 850                    | NA                                 | NA                        |                    |                |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                         |      |     |                       |                            |
|---------------------------------------------------------|------|-----|-----------------------|----------------------------|
| <a href="#">GeForce GTX 645</a>                         | 1887 | 847 | NA                    | NA                         |
| <a href="#">Citrix Indirect Display Adapter</a>         | 1888 | 846 | NA                    | NA                         |
| <a href="#">Ryzen 5 PRO 7530U with Radeon Graphics</a>  | 1888 | 845 | NA                    | NA                         |
| <a href="#">Quadro M520</a>                             | 1889 | 844 | NA                    | NA                         |
| <a href="#">Radeon HD 8670D + HD 7700 Dual</a>          | 1892 | 843 | NA                    | NA                         |
| <a href="#">Ryzen 3 PRO 4350GE with Radeon Graphics</a> | 1896 | 842 | NA                    | NA                         |
| <a href="#">Radeon Vega 8 Ryzen 3 3200G</a>             | 1898 | 841 | NA                    | NA                         |
| <a href="#">Radeon HD 7700-serie</a>                    | 1899 | 839 | NA                    | NA                         |
| <a href="#">Radeon RX Vega 11 Ryzen 5 3350G</a>         | 1899 | 840 | NA                    | NA                         |
| <a href="#">Radeon R7 450</a>                           | 1901 | 838 | <a href="#">6.36</a>  | <a href="#">\$299.00*</a>  |
| <a href="#">Ryzen 5 4600U with Radeon Graphics</a>      | 1901 | 837 | NA                    | NA                         |
| <a href="#">Matrox C680 PCIe x16</a>                    | 1903 | 836 | NA                    | NA                         |
| <a href="#">Radeon Ryzen 5 PRO 5675U</a>                | 1905 | 835 | NA                    | NA                         |
| <a href="#">Radeon Ryzen 5 7600X3D 6-Core</a>           | 1912 | 834 | NA                    | NA                         |
| <a href="#">Intel UHD Graphics 770</a>                  | 1913 | 833 | NA                    | NA                         |
| <a href="#">GeForce GTX 560 SE</a>                      | 1914 | 832 | <a href="#">21.27</a> | <a href="#">\$89.99*</a>   |
| <a href="#">Ryzen 3 5300GE with Radeon Graphics</a>     | 1917 | 831 | NA                    | NA                         |
| <a href="#">Radeon HD 7560D + 7700 Dual</a>             | 1919 | 830 | NA                    | NA                         |
| <a href="#">Ryzen 3 5300G with Radeon Graphics</a>      | 1921 | 829 | NA                    | NA                         |
| <a href="#">Radeon RX 570X</a>                          | 1923 | 828 | <a href="#">12.57</a> | <a href="#">\$153.01*</a>  |
| <a href="#">GeForce GTX 675M</a>                        | 1927 | 826 | NA                    | NA                         |
| <a href="#">Intel Iris Xe MAX 100</a>                   | 1927 | 827 | NA                    | NA                         |
| <a href="#">Radeon RX Vega 11 Ryzen 5 3400GE</a>        | 1929 | 825 | NA                    | NA                         |
| <a href="#">Quadro 5000</a>                             | 1938 | 824 | <a href="#">0.89</a>  | <a href="#">\$2,166.68</a> |
| <a href="#">Quadro K4000M</a>                           | 1947 | 823 | <a href="#">7.67</a>  | <a href="#">\$254.00*</a>  |
| <a href="#">Radeon RX 540</a>                           | 1951 | 822 | NA                    | NA                         |
| <a href="#">GeForce GTX 470M</a>                        | 1953 | 821 | NA                    | NA                         |
| <a href="#">Qualcomm Adreno 8cx Gen 3</a>               | 1957 | 820 | NA                    | NA                         |
| <a href="#">Radeon HD 7660D + HD 7700 Dual</a>          | 1958 | 819 | NA                    | NA                         |
| <a href="#">Radeon HD 6850</a>                          | 1962 | 818 | <a href="#">9.54</a>  | <a href="#">\$205.77</a>   |
| <a href="#">Radeon R7 + HD 7700 Dual</a>                | 1962 | 817 | NA                    | NA                         |
| <a href="#">GeForce GTX 670MX</a>                       | 1970 | 816 | NA                    | NA                         |

| Videocard Name                                    | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|---------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <u>Radeon R7 + R7 350 Dual</u>                    | 1982                                          | 813                          | NA                                          | NA                        |
| <u>Ryzen 3 PRO 7330U with Radeon Graphics</u>     | 1984                                          | 812                          | NA                                          | NA                        |
| <u>GeForce GTX 460 SE</u>                         | 1986                                          | 811                          | <a href="#">12.42</a>                       | <a href="#">\$159.99*</a> |
| <u>Ryzen 5 5625U with Radeon Graphics</u>         | 1989                                          | 810                          | NA                                          | NA                        |
| <u>Radeon Ryzen 5 4600GE with Radeon Graphics</u> | 1991                                          | 808                          | NA                                          | NA                        |
| <u>Ryzen 5 5500U with Radeon Graphics</u>         | 1991                                          | 809                          | NA                                          | NA                        |
| <u>Radeon Vega 11 Ryzen 5 PRO 3400G</u>           | 1992                                          | 807                          | NA                                          | NA                        |
| <u>Intel Iris Pro 580</u>                         | 1993                                          | 806                          | NA                                          | NA                        |
| <u>Radeon R9 M385X</u>                            | 1993                                          | 805                          | NA                                          | NA                        |
| <u>Radeon Ryzen Embedded V2718</u>                | 1998                                          | 804                          | NA                                          | NA                        |
| <u>Radeon R9 350</u>                              | 2002                                          | 803                          | <a href="#">6.70</a>                        | <a href="#">\$299.00*</a> |
| Videocard Name                                    | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <u>GeForce GTX 765M</u>                           | 2004                                          | 802                          | <a href="#">10.76</a>                       | <a href="#">\$186.30*</a> |
| <u>GeForce GT 645</u>                             | 2005                                          | 801                          | NA                                          | NA                        |
| <u>Ryzen 5 5600GT with Radeon Graphics</u>        | 2006                                          | 800                          | NA                                          | NA                        |
| <u>Ryzen 5 PRO 4500U with Radeon Graphics</u>     | 2007                                          | 799                          | NA                                          | NA                        |
| <u>Radeon Ryzen 7 PRO 5875U</u>                   | 2017                                          | 798                          | NA                                          | NA                        |
| <u>FirePro V7800</u>                              | 2028                                          | 797                          | <a href="#">10.68</a>                       | <a href="#">\$190.00*</a> |
| <u>Ryzen 7 PRO 4750U with Radeon Graphics</u>     | 2029                                          | 796                          | NA                                          | NA                        |
| <u>Radeon Ryzen 7 PRO 4750U</u>                   | 2033                                          | 795                          | NA                                          | NA                        |
| <u>Radeon Ryzen 3 PRO 7335U</u>                   | 2034                                          | 793                          | NA                                          | NA                        |
| <u>Ryzen 7 4700U with Radeon Graphics</u>         | 2034                                          | 794                          | NA                                          | NA                        |
| <u>Ryzen 5 PRO 5650U with Radeon Graphics</u>     | 2037                                          | 792                          | NA                                          | NA                        |
| <u>Radeon Ryzen 7 4700U</u>                       | 2039                                          | 791                          | NA                                          | NA                        |
| <u>Radeon Ryzen 5 5560U</u>                       | 2043                                          | 790                          | NA                                          | NA                        |
| <u>Quadro 5000M</u>                               | 2059                                          | 789                          | NA                                          | NA                        |
| <u>Radeon R9 M385</u>                             | 2060                                          | 787                          | NA                                          | NA                        |
| <u>Radeon TM R9 A360</u>                          | 2060                                          | 788                          | NA                                          | NA                        |
| <u>Radeon Ryzen 7 7700X 8-Core</u>                | 2063                                          | 786                          | NA                                          | NA                        |
| <u>Radeon Ryzen 5 Microsoft Surface Edition</u>   | 2065                                          | 785                          | NA                                          | NA                        |
| <u>Ryzen 7 PRO 5875U with Radeon Graphics</u>     | 2067                                          | 784                          | NA                                          | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|-----------------------|--------------------------------------|------------------------|------------------------------------|----------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)          |                     |                    |                |

|                                                |                                      |                        |                                    |                             |
|------------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>Ryzen 5 5560U with Radeon Graphics</u>      | 2073                                 | 781                    | NA                                 | NA                          |
| <u>GeForce GTX 580M</u>                        | 2074                                 | 780                    | <a href="#">8.34</a>               | <a href="#">\$248.68*</a>   |
| <u>Radeon Ryzen 9 7900 12-Core</u>             | 2089                                 | 779                    | NA                                 | NA                          |
| <u>Quadro P520</u>                             | 2095                                 | 778                    | <a href="#">1.40</a>               | <a href="#">\$1,499.00*</a> |
| <u>Radeon 550</u>                              | 2096                                 | 777                    | <a href="#">23.30</a>              | <a href="#">\$89.99*</a>    |
| <u>Intel G35 Express</u>                       | 2097                                 | 776                    | NA                                 | NA                          |
| <u>Intel UHD Graphics P630</u>                 | 2100                                 | 775                    | NA                                 | NA                          |
| <u>FirePro M5100</u>                           | 2102                                 | 774                    | NA                                 | NA                          |
| <u>GeForce 945M</u>                            | 2108                                 | 773                    | NA                                 | NA                          |
| <u>Radeon RX Vega 11</u>                       | 2109                                 | 772                    | <a href="#">2.11</a>               | <a href="#">\$1,002.00*</a> |
| <u>Ryzen 7 4800H with Radeon Graphics</u>      | 2113                                 | 771                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 5600U</u>                    | 2114                                 | 770                    | NA                                 | NA                          |
| <u>Radeon RX 640</u>                           | 2116                                 | 769                    | NA                                 | NA                          |
| <u>Ryzen 3 Pro 4350G with Radeon Graphics</u>  | 2126                                 | 768                    | NA                                 | NA                          |
| <u>GeForce GTX 745</u>                         | 2135                                 | 767                    | <a href="#">7.49</a>               | <a href="#">\$284.95*</a>   |
| <u>VirtualMonitor Device</u>                   | 2137                                 | 766                    | NA                                 | NA                          |
| <u>Ryzen 5 PRO 4650GE with Radeon Graphics</u> | 2140                                 | 765                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 5625U</u>                    | 2141                                 | 764                    | NA                                 | NA                          |
| <u>Radeon Ryzen 3 7335U</u>                    | 2142                                 | 763                    | NA                                 | NA                          |
| <u>GRID P4-1B</u>                              | 2151                                 | 762                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 7430U</u>                    | 2158                                 | 761                    | NA                                 | NA                          |
| <u>Ryzen 5 4600H with Radeon Graphics</u>      | 2163                                 | 760                    | NA                                 | NA                          |
| <u>Quadro M600M</u>                            | 2171                                 | 759                    | <a href="#">8.62</a>               | <a href="#">\$251.99*</a>   |
| <u>Radeon HD 7770</u>                          | 2171                                 | 758                    | <a href="#">7.24</a>               | <a href="#">\$300.00*</a>   |
| <u>Radeon Ryzen 5 PRO 4655G</u>                | 2173                                 | 757                    | NA                                 | NA                          |
| <u>Radeon RX Vega 11 Ryzen 5 3400G</u>         | 2177                                 | 756                    | NA                                 | NA                          |
| <u>Ryzen 5 5600U with Radeon Graphics</u>      | 2178                                 | 755                    | NA                                 | NA                          |
| <u>Ryzen 7 4700G with Radeon Graphics</u>      | 2186                                 | 754                    | NA                                 | NA                          |
| Videocard Name                                 | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>Radeon HD 6870</u>                          | 2210                                 | 753                    | <a href="#">8.33</a>               | <a href="#">\$265.30</a>    |
| <u>Radeon HD 5870</u>                          | 2213                                 | 752                    | <a href="#">5.15</a>               | <a href="#">\$429.99</a>    |

| CPU Benchmarks |  | Video Card Benchmarks                                    | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks              |
|----------------|--|----------------------------------------------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
|                |  | Videocard Name                                           |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">Quadro K620</a>                              |                       |                   |               | 2226                                 | 749                    | <a href="#">1.10</a>               | <a href="#">\$2,029.99*</a> |
|                |  | <a href="#">Intel Iris Pro P580</a>                      |                       |                   |               | 2231                                 | 748                    | NA                                 | NA                          |
|                |  | <a href="#">Ryzen 7 Extreme Edition</a>                  |                       |                   |               | 2239                                 | 747                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 5 7530U</a>                     |                       |                   |               | 2244                                 | 746                    | NA                                 | NA                          |
|                |  | <a href="#">Ryzen 7 5700U with Radeon Graphics</a>       |                       |                   |               | 2246                                 | 745                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 460</a>                          |                       |                   |               | 2262                                 | 744                    | <a href="#">25.14</a>              | <a href="#">\$89.99*</a>    |
|                |  | <a href="#">Intel HD 5600</a>                            |                       |                   |               | 2263                                 | 742                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 5970</a>                           |                       |                   |               | 2263                                 | 743                    | <a href="#">3.14</a>               | <a href="#">\$721.20*</a>   |
|                |  | <a href="#">Radeon Vega 11 Ryzen 5 PRO 3350G</a>         |                       |                   |               | 2264                                 | 741                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro K3100M</a>                            |                       |                   |               | 2265                                 | 740                    | <a href="#">5.66</a>               | <a href="#">\$399.95*</a>   |
|                |  | <a href="#">GeForce MX150</a>                            |                       |                   |               | 2268                                 | 739                    | <a href="#">38.26</a>              | <a href="#">\$59.29*</a>    |
|                |  | <a href="#">Radeon R7 250X</a>                           |                       |                   |               | 2268                                 | 738                    | <a href="#">11.70</a>              | <a href="#">\$194.00*</a>   |
|                |  | <a href="#">Ryzen 5 7530U with Radeon Graphics</a>       |                       |                   |               | 2269                                 | 737                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 6970M</a>                          |                       |                   |               | 2270                                 | 736                    | <a href="#">10.51</a>              | <a href="#">\$215.99*</a>   |
|                |  | <a href="#">Radeon Ryzen 7 Microsoft Surface Edition</a> |                       |                   |               | 2279                                 | 735                    | NA                                 | NA                          |
|                |  | <a href="#">FirePro V8800</a>                            |                       |                   |               | 2280                                 | 734                    | <a href="#">11.52</a>              | <a href="#">\$198.00*</a>   |
|                |  | <a href="#">Ryzen 3 4300GE with Radeon Graphics</a>      |                       |                   |               | 2286                                 | 733                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 5 PRO 5650G</a>                 |                       |                   |               | 2299                                 | 732                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 7 5700U</a>                     |                       |                   |               | 2299                                 | 731                    | NA                                 | NA                          |
|                |  | <a href="#">FirePro V7900</a>                            |                       |                   |               | 2304                                 | 730                    | <a href="#">12.13</a>              | <a href="#">\$190.00*</a>   |
|                |  | <a href="#">Ryzen 5 PRO 4400G with Radeon Graphics</a>   |                       |                   |               | 2305                                 | 729                    | NA                                 | NA                          |
|                |  | <a href="#">Ryzen 7 PRO 5850U with Radeon Graphics</a>   |                       |                   |               | 2308                                 | 728                    | NA                                 | NA                          |
|                |  | <a href="#">GRID M10-1B</a>                              |                       |                   |               | 2309                                 | 727                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX Vega - Renoir Ryzen 3 5300U</a>    |                       |                   |               | 2312                                 | 726                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 7 4800U</a>                     |                       |                   |               | 2314                                 | 725                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Pro WX 4130</a>                       |                       |                   |               | 2317                                 | 724                    | NA                                 | NA                          |
|                |  | <a href="#">Ryzen 3 PRO 5350G with Radeon Graphics</a>   |                       |                   |               | 2325                                 | 723                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 7 PRO 7730U</a>                 |                       |                   |               | 2328                                 | 722                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX Vega Ryzen 3 5300U</a>             |                       |                   |               | 2329                                 | 721                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon R9 M470</a>                           |                       |                   |               | 2330                                 | 720                    | NA                                 | NA                          |
|                |  | <a href="#">Ryzen 5 5600H with Radeon Graphics</a>       |                       |                   |               | 2336                                 | 719                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 550X</a>                           |                       |                   |               | 2339                                 | 718                    | NA                                 | NA                          |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|-----------------------|--------------------------------------|------------------------|------------------------------------|----------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)          |                     |                    |                |

|                                                         |                                      |                        |                                    |                           |
|---------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|---------------------------|
| <a href="#">Ryzen 5 4600G with Radeon Graphics</a>      | 2356                                 | 715                    | NA                                 | NA                        |
| <a href="#">FirePro W6150M</a>                          | 2358                                 | 714                    | NA                                 | NA                        |
| <a href="#">GeForce GTX 485M</a>                        | 2359                                 | 713                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 5 PRO 4655GE</a>               | 2361                                 | 712                    | NA                                 | NA                        |
| <a href="#">Ryzen 7 5800U with Radeon Graphics</a>      | 2361                                 | 711                    | NA                                 | NA                        |
| <a href="#">GRID M10-2B</a>                             | 2363                                 | 710                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 5 PRO 5650GE</a>               | 2365                                 | 709                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 7 PRO 4750GE</a>               | 2382                                 | 708                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 7 5825U</a>                    | 2391                                 | 707                    | NA                                 | NA                        |
| <a href="#">Ryzen 5 Pro 4650G with Radeon Graphics</a>  | 2397                                 | 706                    | NA                                 | NA                        |
| <a href="#">GeForce MX250</a>                           | 2400                                 | 705                    | NA                                 | NA                        |
| Videocard Name                                          | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |
| <a href="#">Radeon RX Vega 11 PRD</a>                   | 2401                                 | 704                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 5 5600H</a>                    | 2405                                 | 703                    | NA                                 | NA                        |
| <a href="#">Ryzen 7 PRO 5750G with Radeon Graphics</a>  | 2405                                 | 702                    | NA                                 | NA                        |
| <a href="#">Radeon Pro</a>                              | 2407                                 | 701                    | <a href="#">5.61</a>               | <a href="#">\$428.98</a>  |
| <a href="#">Radeon Ryzen 7 5800U</a>                    | 2407                                 | 700                    | NA                                 | NA                        |
| <a href="#">Radeon Pro WX 3200</a>                      | 2414                                 | 699                    | <a href="#">11.41</a>              | <a href="#">\$211.71*</a> |
| <a href="#">GeForce MX330</a>                           | 2422                                 | 698                    | NA                                 | NA                        |
| <a href="#">Ryzen 5 PRO 5650GE with Radeon Graphics</a> | 2435                                 | 697                    | NA                                 | NA                        |
| <a href="#">FirePro 3D V8800</a>                        | 2437                                 | 696                    | <a href="#">5.74</a>               | <a href="#">\$424.99*</a> |
| <a href="#">P106-090</a>                                | 2447                                 | 695                    | NA                                 | NA                        |
| <a href="#">GeForce GT 1030</a>                         | 2454                                 | 694                    | <a href="#">22.43</a>              | <a href="#">\$109.43</a>  |
| <a href="#">Barco MXRT 5600</a>                         | 2465                                 | 693                    | <a href="#">3.50</a>               | <a href="#">\$704.00*</a> |
| <a href="#">Radeon Ryzen 7 7730U</a>                    | 2466                                 | 692                    | NA                                 | NA                        |
| <a href="#">Ryzen 7 7730U with Radeon Graphics</a>      | 2470                                 | 691                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 9 7900X 12-Core</a>            | 2480                                 | 690                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 5 5600GT</a>                   | 2488                                 | 689                    | NA                                 | NA                        |
| <a href="#">Ryzen 7 4700GE with Radeon Graphics</a>     | 2496                                 | 688                    | NA                                 | NA                        |
| <a href="#">Ryzen 5 PRO 5650G with Radeon Graphics</a>  | 2500                                 | 687                    | NA                                 | NA                        |
| <a href="#">Radeon Ryzen 7 5800HS</a>                   | 2510                                 | 686                    | NA                                 | NA                        |

| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| CPU<br>Benchmarks                                         | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks         |
| N18E-Q1                                                   |                          |                          |                      |                  | 2525                                          | 683                          | NA                                          | NA                        |
| GeForce GTX 650 Ti                                        |                          |                          |                      |                  | 2527                                          | 682                          | <a href="#">27.16</a>                       | <a href="#">\$93.05*</a>  |
| FireStream 9370                                           |                          |                          |                      |                  | 2528                                          | 681                          | NA                                          | NA                        |
| Radeon Ryzen 5 PRO 4400G                                  |                          |                          |                      |                  | 2528                                          | 680                          | NA                                          | NA                        |
| Radeon HD 6850 X2                                         |                          |                          |                      |                  | 2534                                          | 679                          | NA                                          | NA                        |
| GRID K240Q                                                |                          |                          |                      |                  | 2541                                          | 678                          | NA                                          | NA                        |
| Ryzen 7 PRO 4750GE with Radeon Graphics                   |                          |                          |                      |                  | 2549                                          | 676                          | NA                                          | NA                        |
| Ryzen 7 PRO 7730U with Radeon Graphics                    |                          |                          |                      |                  | 2549                                          | 677                          | NA                                          | NA                        |
| Radeon Ryzen 5 5600GE                                     |                          |                          |                      |                  | 2555                                          | 675                          | NA                                          | NA                        |
| Radeon Ryzen 7 PRO 4750G                                  |                          |                          |                      |                  | 2558                                          | 674                          | NA                                          | NA                        |
| Radeon Ryzen 5 5500GT                                     |                          |                          |                      |                  | 2570                                          | 673                          | NA                                          | NA                        |
| Snapdragon X Elite - X1E78100 - Qualcomm Adreno GP        |                          |                          |                      |                  | 2570                                          | 672                          | NA                                          | NA                        |
| GeForce GTX 950A                                          |                          |                          |                      |                  | 2572                                          | 671                          | NA                                          | NA                        |
| Radeon Pro WX 3100                                        |                          |                          |                      |                  | 2575                                          | 670                          | NA                                          | NA                        |
| GeForce GTX 950M                                          |                          |                          |                      |                  | 2578                                          | 669                          | <a href="#">4.55</a>                        | <a href="#">\$567.00*</a> |
| Ryzen 5 5600G with Radeon Graphics                        |                          |                          |                      |                  | 2580                                          | 668                          | NA                                          | NA                        |
| Radeon Ryzen 7 4700GE                                     |                          |                          |                      |                  | 2595                                          | 667                          | NA                                          | NA                        |
| GRID T4-2B                                                |                          |                          |                      |                  | 2601                                          | 666                          | NA                                          | NA                        |
| Ryzen 5 5600GE with Radeon Graphics                       |                          |                          |                      |                  | 2601                                          | 665                          | NA                                          | NA                        |
| Radeon HD 6950                                            |                          |                          |                      |                  | 2603                                          | 664                          | <a href="#">18.60</a>                       | <a href="#">\$139.99*</a> |
| Snapdragon X Plus - X1P64100 - Qualcomm Adreno GPU        |                          |                          |                      |                  | 2604                                          | 663                          | NA                                          | NA                        |
| Radeon Ryzen 9 4900H                                      |                          |                          |                      |                  | 2605                                          | 662                          | NA                                          | NA                        |
| Snapdragon X Elite - X1E80100 - Qualcomm Adreno GP        |                          |                          |                      |                  | 2615                                          | 661                          | NA                                          | NA                        |
| Radeon Ryzen 7 4700G                                      |                          |                          |                      |                  | 2620                                          | 660                          | NA                                          | NA                        |
| MONSTER GeForce GTX 675M                                  |                          |                          |                      |                  | 2637                                          | 659                          | NA                                          | NA                        |
| FirePro R5000                                             |                          |                          |                      |                  | 2646                                          | 658                          | <a href="#">24.06</a>                       | <a href="#">\$109.99*</a> |
| Radeon 660M                                               |                          |                          |                      |                  | 2647                                          | 657                          | NA                                          | NA                        |
| GeForce GTX 465                                           |                          |                          |                      |                  | 2653                                          | 656                          | <a href="#">13.61</a>                       | <a href="#">\$195.00*</a> |
| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| Radeon Pro WX 4150                                        |                          |                          |                      |                  | 2658                                          | 655                          | <a href="#">4.36</a>                        | <a href="#">\$610.04*</a> |
| Ryzen 7 Pro 4750G with Radeon Graphics                    |                          |                          |                      |                  | 2681                                          | 654                          | NA                                          | NA                        |

| CPU Benchmarks |  | Video Card Benchmarks                               | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks              |
|----------------|--|-----------------------------------------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
|                |  | Videocard Name                                      |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">GRID M10-2Q</a>                         |                       |                   |               | 2691                                 | 651                    | NA                                 | NA                          |
|                |  | <a href="#">Barco MXRT 5500</a>                     |                       |                   |               | 2701                                 | 650                    | <a href="#">9.04</a>               | <a href="#">\$299.00*</a>   |
|                |  | <a href="#">GeForce GTX 675MX</a>                   |                       |                   |               | 2716                                 | 649                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Pro 450</a>                      |                       |                   |               | 2722                                 | 648                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro K4000</a>                        |                       |                   |               | 2723                                 | 646                    | <a href="#">10.09</a>              | <a href="#">\$270.00*</a>   |
|                |  | <a href="#">Radeon RX 550</a>                       |                       |                   |               | 2723                                 | 647                    | <a href="#">15.13</a>              | <a href="#">\$179.99</a>    |
|                |  | <a href="#">FirePro V9800</a>                       |                       |                   |               | 2726                                 | 645                    | <a href="#">5.75</a>               | <a href="#">\$474.00*</a>   |
|                |  | <a href="#">GRID K2</a>                             |                       |                   |               | 2736                                 | 644                    | <a href="#">2.05</a>               | <a href="#">\$1,331.97*</a> |
|                |  | <a href="#">Ryzen 7 5800H with Radeon Graphics</a>  |                       |                   |               | 2740                                 | 643                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro K4100M</a>                       |                       |                   |               | 2762                                 | 642                    | <a href="#">10.57</a>              | <a href="#">\$261.29*</a>   |
|                |  | <a href="#">Ryzen 7 5700GE with Radeon Graphics</a> |                       |                   |               | 2762                                 | 641                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 560</a>                     |                       |                   |               | 2767                                 | 640                    | <a href="#">13.50</a>              | <a href="#">\$205.00*</a>   |
|                |  | <a href="#">Radeon R9 M380</a>                      |                       |                   |               | 2771                                 | 639                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro M620</a>                         |                       |                   |               | 2773                                 | 638                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 770M</a>                    |                       |                   |               | 2785                                 | 637                    | <a href="#">20.19</a>              | <a href="#">\$138.00*</a>   |
|                |  | <a href="#">Ryzen 7 5700G with Radeon Graphics</a>  |                       |                   |               | 2789                                 | 636                    | NA                                 | NA                          |
|                |  | <a href="#">Qualcomm Adreno X1-85 GPU</a>           |                       |                   |               | 2802                                 | 635                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro K5000M</a>                       |                       |                   |               | 2806                                 | 633                    | <a href="#">5.51</a>               | <a href="#">\$508.91*</a>   |
|                |  | <a href="#">Radeon HD 8950</a>                      |                       |                   |               | 2806                                 | 634                    | NA                                 | NA                          |
|                |  | <a href="#">FirePro W4300</a>                       |                       |                   |               | 2808                                 | 632                    | <a href="#">11.70</a>              | <a href="#">\$239.99*</a>   |
|                |  | <a href="#">FirePro 3D V9800</a>                    |                       |                   |               | 2811                                 | 630                    | <a href="#">1.13</a>               | <a href="#">\$2,499.00*</a> |
|                |  | <a href="#">GeForce MX350</a>                       |                       |                   |               | 2811                                 | 631                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Ryzen 7 5800H</a>                |                       |                   |               | 2823                                 | 629                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon HD 6970</a>                      |                       |                   |               | 2836                                 | 628                    | <a href="#">18.91</a>              | <a href="#">\$149.99*</a>   |
|                |  | <a href="#">GRID K280Q</a>                          |                       |                   |               | 2839                                 | 627                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro M1000M</a>                       |                       |                   |               | 2842                                 | 626                    | <a href="#">33.05</a>              | <a href="#">\$85.99*</a>    |
|                |  | <a href="#">Radeon Pro V340 MxGPU</a>               |                       |                   |               | 2853                                 | 625                    | NA                                 | NA                          |
|                |  | <a href="#">Custom GPU 0405</a>                     |                       |                   |               | 2871                                 | 624                    | NA                                 | NA                          |
|                |  | <a href="#">FirePro M6100 FireGL V</a>              |                       |                   |               | 2875                                 | 623                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon R7 260</a>                       |                       |                   |               | 2891                                 | 622                    | <a href="#">32.13</a>              | <a href="#">\$89.99*</a>    |
|                |  | <a href="#">Ryzen 9 5900HX with Radeon Graphics</a> |                       |                   |               | 2912                                 | 621                    | NA                                 | NA                          |
|                |  | <a href="#">NVIDIA A10-4Q</a>                       |                       |                   |               | 2915                                 | 620                    | NA                                 | NA                          |

| CPU Benchmarks |  |  |  |  | Video Card Benchmarks                                              |  |  |  |  | Hard Drive Benchmarks                |  |  |  |  | Memory Benchmarks      |  |  |  |  | PC Benchmarks                      |  |  |  |  | Software Marketshare        |  |  |  |  | Database Benchmarks |  |  |  |  | Android Benchmarks |  |  |  |  | iOS Benchmarks |  |  |  |  |
|----------------|--|--|--|--|--------------------------------------------------------------------|--|--|--|--|--------------------------------------|--|--|--|--|------------------------|--|--|--|--|------------------------------------|--|--|--|--|-----------------------------|--|--|--|--|---------------------|--|--|--|--|--------------------|--|--|--|--|----------------|--|--|--|--|
|                |  |  |  |  | Videocard Name                                                     |  |  |  |  | Passmark G3D Mark (higher is better) |  |  |  |  | Rank (lower is better) |  |  |  |  | Videocard Value (higher is better) |  |  |  |  | Price (USD)                 |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GRID K260Q</a>                                         |  |  |  |  | 2949                                 |  |  |  |  | 617                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">A40-2Q</a>                                             |  |  |  |  | 2959                                 |  |  |  |  | 616                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon Ryzen 9 5900H</a>                               |  |  |  |  | 2960                                 |  |  |  |  | 615                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GRID M10-4Q</a>                                        |  |  |  |  | 2976                                 |  |  |  |  | 614                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon Ryzen 7 PRO 5800H</a>                           |  |  |  |  | 2980                                 |  |  |  |  | 613                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Snapdragon X Elite - X1E84100 - Qualcomm Adreno GP</a> |  |  |  |  | 2981                                 |  |  |  |  | 612                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">A16-2B</a>                                             |  |  |  |  | 2988                                 |  |  |  |  | 610                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">FirePro W5000</a>                                      |  |  |  |  | 2988                                 |  |  |  |  | 611                    |  |  |  |  | <a href="#">16.24</a>              |  |  |  |  | <a href="#">\$184.00*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">FirePro W5100</a>                                      |  |  |  |  | 2993                                 |  |  |  |  | 609                    |  |  |  |  | <a href="#">23.76</a>              |  |  |  |  | <a href="#">\$125.99*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Tesla M10</a>                                          |  |  |  |  | 2994                                 |  |  |  |  | 608                    |  |  |  |  | <a href="#">1.11</a>               |  |  |  |  | <a href="#">\$2,695.00*</a> |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GRID T4-1B</a>                                         |  |  |  |  | 3009                                 |  |  |  |  | 607                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | Videocard Name                                                     |  |  |  |  | Passmark G3D Mark (higher is better) |  |  |  |  | Rank (lower is better) |  |  |  |  | Videocard Value (higher is better) |  |  |  |  | Price (USD)                 |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon HD 6990</a>                                     |  |  |  |  | 3013                                 |  |  |  |  | 606                    |  |  |  |  | <a href="#">6.05</a>               |  |  |  |  | <a href="#">\$498.49*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Tesla C2075</a>                                        |  |  |  |  | 3016                                 |  |  |  |  | 605                    |  |  |  |  | <a href="#">4.67</a>               |  |  |  |  | <a href="#">\$646.00*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon R9 360</a>                                      |  |  |  |  | 3031                                 |  |  |  |  | 604                    |  |  |  |  | <a href="#">22.64</a>              |  |  |  |  | <a href="#">\$133.89*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon R9 260</a>                                      |  |  |  |  | 3047                                 |  |  |  |  | 603                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GeForce GTX 860M</a>                                   |  |  |  |  | 3048                                 |  |  |  |  | 602                    |  |  |  |  | <a href="#">26.74</a>              |  |  |  |  | <a href="#">\$114.00*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GeForce GTX 560 Ti</a>                                 |  |  |  |  | 3057                                 |  |  |  |  | 601                    |  |  |  |  | <a href="#">23.52</a>              |  |  |  |  | <a href="#">\$129.99*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon HD 7790</a>                                     |  |  |  |  | 3090                                 |  |  |  |  | 600                    |  |  |  |  | <a href="#">22.07</a>              |  |  |  |  | <a href="#">\$139.99*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon Pro 455</a>                                     |  |  |  |  | 3112                                 |  |  |  |  | 599                    |  |  |  |  | <a href="#">6.93</a>               |  |  |  |  | <a href="#">\$449.00*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">GeForce GTX 470</a>                                    |  |  |  |  | 3114                                 |  |  |  |  | 598                    |  |  |  |  | <a href="#">51.92</a>              |  |  |  |  | <a href="#">\$59.99*</a>    |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Tesla C2070</a>                                        |  |  |  |  | 3120                                 |  |  |  |  | 597                    |  |  |  |  | <a href="#">5.17</a>               |  |  |  |  | <a href="#">\$604.00*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon R7 360</a>                                      |  |  |  |  | 3129                                 |  |  |  |  | 596                    |  |  |  |  | <a href="#">21.43</a>              |  |  |  |  | <a href="#">\$145.99*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon Pro 555</a>                                     |  |  |  |  | 3140                                 |  |  |  |  | 595                    |  |  |  |  | <a href="#">2.99</a>               |  |  |  |  | <a href="#">\$1,049.00*</a> |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Tesla K40m</a>                                         |  |  |  |  | 3143                                 |  |  |  |  | 594                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">FirePro V7000</a>                                      |  |  |  |  | 3161                                 |  |  |  |  | 592                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">FirePro W7170M</a>                                     |  |  |  |  | 3161                                 |  |  |  |  | 593                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon RX 560X</a>                                     |  |  |  |  | 3168                                 |  |  |  |  | 591                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Tesla C2050</a>                                        |  |  |  |  | 3175                                 |  |  |  |  | 590                    |  |  |  |  | <a href="#">11.76</a>              |  |  |  |  | <a href="#">\$269.99*</a>   |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Radeon 740M</a>                                        |  |  |  |  | 3184                                 |  |  |  |  | 589                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |
|                |  |  |  |  | <a href="#">Intel Graphics</a>                                     |  |  |  |  | 3186                                 |  |  |  |  | 588                    |  |  |  |  | NA                                 |  |  |  |  | NA                          |  |  |  |  |                     |  |  |  |  |                    |  |  |  |  |                |  |  |  |  |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                                           |                                      |                        |                                    |                             |
|-----------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>Radeon Ryzen 5 7535HS</u>                              | 3208                                 | 585                    | NA                                 | NA                          |
| <u>Quadro K5100M</u>                                      | 3211                                 | 584                    | <a href="#">2.90</a>               | <a href="#">\$1,108.84*</a> |
| <u>Radeon Ryzen 5 Pro 7535U</u>                           | 3215                                 | 583                    | NA                                 | NA                          |
| <u>Custom GPU 0932</u>                                    | 3223                                 | 582                    | NA                                 | NA                          |
| <u>Quadro M1200</u>                                       | 3228                                 | 581                    | NA                                 | NA                          |
| <u>Ryzen 5 6600U with Radeon Graphics</u>                 | 3233                                 | 580                    | NA                                 | NA                          |
| <u>Radeon R9 M470X</u>                                    | 3244                                 | 579                    | NA                                 | NA                          |
| <u>GeForce 770M</u>                                       | 3245                                 | 577                    | <a href="#">18.34</a>              | <a href="#">\$176.99*</a>   |
| <u>Snapdragon X Elite - X1E001DE - Qualcomm Adreno GP</u> | 3245                                 | 578                    | NA                                 | NA                          |
| <u>GeForce GTX 680M</u>                                   | 3251                                 | 576                    | <a href="#">23.91</a>              | <a href="#">\$135.99*</a>   |
| <u>GRID T4-4Q</u>                                         | 3260                                 | 575                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 7535U</u>                               | 3266                                 | 574                    | NA                                 | NA                          |
| <u>GRID P100-8Q</u>                                       | 3267                                 | 573                    | NA                                 | NA                          |
| <u>Radeon R9 M290X</u>                                    | 3282                                 | 572                    | NA                                 | NA                          |
| <u>GRID T4-1Q</u>                                         | 3302                                 | 571                    | NA                                 | NA                          |
| <u>Radeon 660M Ryzen 5 7535HS</u>                         | 3308                                 | 570                    | NA                                 | NA                          |
| <u>Quadro P600</u>                                        | 3314                                 | 569                    | <a href="#">15.74</a>              | <a href="#">\$210.58*</a>   |
| <u>A40-24Q</u>                                            | 3317                                 | 568                    | NA                                 | NA                          |
| <u>Radeon 680M</u>                                        | 3334                                 | 567                    | NA                                 | NA                          |
| <u>GeForce GTX 750</u>                                    | 3339                                 | 566                    | <a href="#">25.29</a>              | <a href="#">\$132.07</a>    |
| <u>GeForce GTX 590</u>                                    | 3341                                 | 565                    | <a href="#">7.68</a>               | <a href="#">\$435.00*</a>   |
| <u>GRID M10-1Q</u>                                        | 3351                                 | 564                    | NA                                 | NA                          |
| <u>GeForce GTX 650 Ti BOOST</u>                           | 3367                                 | 563                    | NA                                 | NA                          |
| <u>Radeon E8870PCIe</u>                                   | 3368                                 | 562                    | NA                                 | NA                          |
| <u>Radeon HD8970M</u>                                     | 3368                                 | 561                    | NA                                 | NA                          |
| <u>GeForce GTX 960M</u>                                   | 3369                                 | 560                    | <a href="#">2.88</a>               | <a href="#">\$1,169.00*</a> |
| <u>NVIDIA A40-12Q</u>                                     | 3370                                 | 559                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 6600U</u>                               | 3389                                 | 558                    | NA                                 | NA                          |
| Videocard Name                                            | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>Tesla C2050 / C2070</u>                                | 3428                                 | 557                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 4800H</u>                               | 3438                                 | 556                    | NA                                 | NA                          |

|                                                |                          | Videocard Name           | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)                                         |                       |                   |                       |                           |
|------------------------------------------------|--------------------------|--------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|--------------------------------------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| CPU<br>Benchmarks                              | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks                          | PC<br>Benchmarks             | Software<br>Marketshare                     | Database<br>Benchmarks                                 | Android<br>Benchmarks | iOS<br>Benchmarks |                       |                           |
|                                                |                          |                          |                                               |                              |                                             |                                                        |                       |                   |                       |                           |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Pro 460</a>                         | 3452                  | 553               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GeForce GTX 960A</a>                       | 3464                  | 552               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Pro W5500M</a>                      | 3469                  | 551               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GeForce GTX 870M</a>                       | 3473                  | 550               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Pro 560</a>                         | 3475                  | 549               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Quadro K2200M</a>                          | 3481                  | 548               | <a href="#">27.86</a> | <a href="#">\$124.95*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Quadro 7000</a>                            | 3505                  | 547               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Ryzen 5 PRO 6650U with Radeon Graphics</a> | 3515                  | 546               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GRID K520</a>                              | 3516                  | 545               | <a href="#">23.44</a> | <a href="#">\$149.99*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Ryzen 5 PRO 6650U</a>                      | 3519                  | 544               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Ryzen 5 6600H with Radeon Graphics</a>     | 3525                  | 543               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Ryzen 5 7535U with Radeon Graphics</a>     | 3529                  | 542               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Ryzen 7 4800HS</a>                  | 3554                  | 541               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Quadro K2200</a>                           | 3567                  | 540               | <a href="#">13.30</a> | <a href="#">\$268.30*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GeForce GTX 680M KY_Bullet Edition</a>     | 3568                  | 537               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GRID M6-8Q</a>                             | 3568                  | 539               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon HD 7970M</a>                        | 3568                  | 538               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon R9 M390X</a>                        | 3597                  | 536               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">T400</a>                                   | 3608                  | 535               | <a href="#">22.55</a> | <a href="#">\$159.99</a>  |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">P104-100</a>                               | 3628                  | 534               | <a href="#">12.09</a> | <a href="#">\$299.99*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">GeForce GTX 775M</a>                       | 3634                  | 533               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Ryzen 9 7950X 16-Core</a>           | 3649                  | 532               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon RX 560</a>                          | 3650                  | 531               | <a href="#">19.88</a> | <a href="#">\$183.66</a>  |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">VMware Horizon Indirect Display Driver</a> | 3651                  | 530               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Pro WX 4100</a>                     | 3654                  | 529               | <a href="#">7.31</a>  | <a href="#">\$499.99*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Quadro P620</a>                            | 3658                  | 528               | <a href="#">6.37</a>  | <a href="#">\$574.55*</a> |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon R9 M485X</a>                        | 3660                  | 527               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">T500</a>                                   | 3662                  | 526               | NA                    | NA                        |
|                                                |                          |                          |                                               |                              |                                             | <a href="#">Radeon Ryzen 5 6600H</a>                   | 3663                  | 525               | NA                    | NA                        |
| <a href="#">Ryzen 5 6600HS Creator Edition</a> | 3671                     | 524                      | NA                                            | NA                           |                                             |                                                        |                       |                   |                       |                           |
| <a href="#">Radeon Pro 560X</a>                | 3677                     | 523                      | NA                                            | NA                           |                                             |                                                        |                       |                   |                       |                           |
| <a href="#">Matrox LUMA A310</a>               | 3690                     | 522                      | NA                                            | NA                           |                                             |                                                        |                       |                   |                       |                           |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks                | Memory Benchmarks      | PC Benchmarks                      | Software Marketshare | Database Benchmarks | Android Benchmarks | iOS Benchmarks |
|----------------|--|-----------------------|--------------------------------------|------------------------|------------------------------------|----------------------|---------------------|--------------------|----------------|
|                |  | Videocard Name        | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)          |                     |                    |                |

|                                                |                                      |                        |                                    |                             |
|------------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>Ryzen 7 PRO 6850HS with Radeon Graphics</u> | 3736                                 | 519                    | NA                                 | NA                          |
| <u>GeForce MX450</u>                           | 3745                                 | 518                    | NA                                 | NA                          |
| <u>Barco MXRT 7500</u>                         | 3753                                 | 517                    | <a href="#">12.55</a>              | <a href="#">\$299.00*</a>   |
| <u>FirePro S7150</u>                           | 3770                                 | 516                    | <a href="#">2.22</a>               | <a href="#">\$1,697.99*</a> |
| <u>T400 4GB</u>                                | 3772                                 | 515                    | NA                                 | NA                          |
| <u>Radeon Ryzen 5 6600HS Creator Edition</u>   | 3795                                 | 514                    | NA                                 | NA                          |
| <u>GeForce GTX 780M</u>                        | 3817                                 | 513                    | <a href="#">7.65</a>               | <a href="#">\$499.00*</a>   |
| <u>RTX A500 Embedded GPU</u>                   | 3823                                 | 512                    | NA                                 | NA                          |
| <u>GeForce GTX 965M</u>                        | 3827                                 | 511                    | NA                                 | NA                          |
| <u>GRID M60-4Q</u>                             | 3831                                 | 510                    | NA                                 | NA                          |
| <u>GeForce GTX 880M</u>                        | 3837                                 | 509                    | NA                                 | NA                          |
| Videocard Name                                 | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>Radeon HD 7850</u>                          | 3870                                 | 508                    | <a href="#">23.28</a>              | <a href="#">\$166.26</a>    |
| <u>Matrox LUMA A310F</u>                       | 3873                                 | 507                    | NA                                 | NA                          |
| <u>Radeon HD 8970M</u>                         | 3876                                 | 506                    | <a href="#">27.69</a>              | <a href="#">\$139.99*</a>   |
| <u>GRID M60-8Q</u>                             | 3883                                 | 505                    | NA                                 | NA                          |
| <u>Radeon RX Vega M GL</u>                     | 3898                                 | 504                    | NA                                 | NA                          |
| <u>GeForce GTX 750 Ti</u>                      | 3900                                 | 503                    | <a href="#">44.26</a>              | <a href="#">\$88.11*</a>    |
| <u>GRID P6-2Q</u>                              | 3925                                 | 502                    | NA                                 | NA                          |
| <u>GeForce GTX 570</u>                         | 3927                                 | 501                    | <a href="#">26.19</a>              | <a href="#">\$149.99*</a>   |
| <u>Quadro M2000</u>                            | 3989                                 | 500                    | <a href="#">15.10</a>              | <a href="#">\$264.24*</a>   |
| <u>Radeon Ryzen 7 Pro 7735U</u>                | 3994                                 | 499                    | NA                                 | NA                          |
| <u>Quadro K5000</u>                            | 3997                                 | 498                    | <a href="#">16.05</a>              | <a href="#">\$249.00*</a>   |
| <u>GeForce GTX 660</u>                         | 4012                                 | 497                    | <a href="#">23.89</a>              | <a href="#">\$167.95*</a>   |
| <u>Radeon HD 7800-serie</u>                    | 4029                                 | 496                    | NA                                 | NA                          |
| <u>GeForce GTX 1050 with Max-Q Design</u>      | 4046                                 | 495                    | NA                                 | NA                          |
| <u>RadeonT 660M Ryzen 5 7535HS</u>             | 4051                                 | 494                    | NA                                 | NA                          |
| <u>Radeon PRO Ryzen 5 PRO 6650U</u>            | 4066                                 | 493                    | NA                                 | NA                          |
| <u>Radeon RX 460</u>                           | 4101                                 | 492                    | <a href="#">24.59</a>              | <a href="#">\$166.81*</a>   |
| <u>GeForce GTX 480</u>                         | 4116                                 | 491                    | <a href="#">24.21</a>              | <a href="#">\$169.99*</a>   |
| <u>GRID V100D-8Q</u>                           | 4155                                 | 490                    | NA                                 | NA                          |

| Videocard Name                    | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|-----------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>GeForce GTX 680MX</u>          | 4192                                 | 487                    | NA                                 | NA                          |
| <u>NVIDIA A40-8Q</u>              | 4220                                 | 486                    | NA                                 | NA                          |
| <u>Quadro M2200</u>               | 4242                                 | 485                    | <a href="#">16.97</a>              | <a href="#">\$249.99*</a>   |
| <u>Radeon Ryzen 9 PRO 6950HS</u>  | 4250                                 | 484                    | NA                                 | NA                          |
| <u>FirePro W7000</u>              | 4252                                 | 483                    | <a href="#">15.30</a>              | <a href="#">\$278.05*</a>   |
| <u>RadeonT 660M Ryzen 5 6600H</u> | 4257                                 | 482                    | NA                                 | NA                          |
| <u>Radeon R9 270 / R7 370</u>     | 4259                                 | 481                    | <a href="#">19.98</a>              | <a href="#">\$213.16*</a>   |
| <u>Radeon R9 270</u>              | 4306                                 | 480                    | NA                                 | NA                          |
| <u>Quadro K4200</u>               | 4325                                 | 479                    | <a href="#">17.37</a>              | <a href="#">\$249.00*</a>   |
| <u>GRID GTX P40-6</u>             | 4340                                 | 478                    | NA                                 | NA                          |
| <u>FirePro W7000 Adapter</u>      | 4359                                 | 477                    | NA                                 | NA                          |
| <u>Tesla K20Xm</u>                | 4403                                 | 476                    | <a href="#">0.57</a>               | <a href="#">\$7,699.00*</a> |
| <u>GeForce GTX 660 Ti</u>         | 4422                                 | 475                    | <a href="#">30.71</a>              | <a href="#">\$144.00*</a>   |
| <u>GRID P6-4Q</u>                 | 4429                                 | 474                    | NA                                 | NA                          |
| <u>Tesla K20m</u>                 | 4432                                 | 473                    | NA                                 | NA                          |
| <u>GRID M60-1B</u>                | 4456                                 | 472                    | NA                                 | NA                          |
| <u>GeForce GTX 1050 (Mobile)</u>  | 4461                                 | 471                    | NA                                 | NA                          |
| <u>Radeon HD 7870 XT</u>          | 4469                                 | 470                    | NA                                 | NA                          |
| <u>Quadro P1000</u>               | 4475                                 | 469                    | <a href="#">15.43</a>              | <a href="#">\$289.99*</a>   |
| <u>Tesla K40c</u>                 | 4494                                 | 468                    | NA                                 | NA                          |
| <u>Radeon R7 370</u>              | 4499                                 | 467                    | NA                                 | NA                          |
| <u>GeForce MX550</u>              | 4511                                 | 466                    | NA                                 | NA                          |
| <u>FirePro S7000</u>              | 4523                                 | 465                    | <a href="#">18.35</a>              | <a href="#">\$246.54*</a>   |
| <u>Radeon Pro 465</u>             | 4537                                 | 464                    | NA                                 | NA                          |
| <u>Intel Arc 130V GPU</u>         | 4552                                 | 463                    | NA                                 | NA                          |
| <u>B8DKMDAP</u>                   | 4557                                 | 462                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 6800U</u>       | 4594                                 | 460                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 PRO 6860Z</u>   | 4594                                 | 461                    | NA                                 | NA                          |
| Videocard Name                    | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>GeForce GTX 580</u>            | 4612                                 | 459                    | <a href="#">9.44</a>               | <a href="#">\$488.59*</a>   |
| <u>Radeon HD 7870</u>             | 4619                                 | 458                    | <a href="#">26.25</a>              | <a href="#">\$176.00*</a>   |

| CPU Benchmarks |  | Video Card Benchmarks                                  | Hard Drive Benchmarks                | Memory Benchmarks | PC Benchmarks          | Software Marketshare               | Database Benchmarks       | Android Benchmarks | iOS Benchmarks |
|----------------|--|--------------------------------------------------------|--------------------------------------|-------------------|------------------------|------------------------------------|---------------------------|--------------------|----------------|
|                |  | Videocard Name                                         | Passmark G3D Mark (higher is better) |                   | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)               |                    |                |
|                |  | <a href="#">Intel Arc A310 LP</a>                      | 4715                                 |                   | 455                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon R9 370</a>                          | 4722                                 |                   | 454                    | <a href="#">29.51</a>              | <a href="#">\$159.99*</a> |                    |                |
|                |  | <a href="#">Radeon HD 7950 / R9 280</a>                | 4764                                 |                   | 453                    | <a href="#">19.78</a>              | <a href="#">\$240.83*</a> |                    |                |
|                |  | <a href="#">L4-24Q</a>                                 | 4767                                 |                   | 452                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">FirePro S10000</a>                         | 4768                                 |                   | 451                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Pro WX Vega M GL</a>                | 4768                                 |                   | 450                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GRID RTX6000P-6Q</a>                       | 4777                                 |                   | 449                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce GTX 760</a>                        | 4798                                 |                   | 448                    | <a href="#">32.20</a>              | <a href="#">\$149.00*</a> |                    |                |
|                |  | <a href="#">Ryzen 7 6800H with Radeon Graphics</a>     | 4801                                 |                   | 447                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Pro Vega 16</a>                     | 4809                                 |                   | 446                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">T550 Laptop GPU</a>                        | 4819                                 |                   | 445                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Ryzen 7 6800U with Radeon Graphics</a>     | 4829                                 |                   | 444                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GRID P40-2Q</a>                            | 4843                                 |                   | 443                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Ryzen 7 PRO 6860Z with Radeon Graphics</a> | 4869                                 |                   | 442                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon R9 270X</a>                         | 4874                                 |                   | 441                    | <a href="#">14.93</a>              | <a href="#">\$326.50*</a> |                    |                |
|                |  | <a href="#">FirePro S9050</a>                          | 4901                                 |                   | 440                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon R9 M395</a>                         | 4915                                 |                   | 438                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">RTXA5000-8Q</a>                            | 4915                                 |                   | 439                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Barco MXRT 7600</a>                        | 4943                                 |                   | 437                    | <a href="#">8.20</a>               | <a href="#">\$602.59*</a> |                    |                |
|                |  | <a href="#">L4-4Q</a>                                  | 4945                                 |                   | 436                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon RX 5300M</a>                        | 4947                                 |                   | 435                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Instinct MI25 MxGPU</a>             | 4978                                 |                   | 434                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce GTX 1630</a>                       | 4997                                 |                   | 433                    | <a href="#">26.30</a>              | <a href="#">\$189.99*</a> |                    |                |
|                |  | <a href="#">Ryzen 7 6800U</a>                          | 5006                                 |                   | 432                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Pro Vega 20</a>                     | 5019                                 |                   | 431                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce GTX 1050</a>                       | 5030                                 |                   | 430                    | <a href="#">21.05</a>              | <a href="#">\$239.00*</a> |                    |                |
|                |  | <a href="#">EIZO Quadro MED-XN51LP</a>                 | 5048                                 |                   | 429                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Ryzen 7 7735U</a>                   | 5054                                 |                   | 428                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">FirePro S9000</a>                          | 5059                                 |                   | 427                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">GeForce GTX 1050 3GB</a>                   | 5062                                 |                   | 426                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Ryzen 7 PRO 6860Z</a>                      | 5076                                 |                   | 425                    | NA                                 | NA                        |                    |                |
|                |  | <a href="#">Radeon Ryzen 7 PRO 6850HS</a>              | 5089                                 |                   | 424                    | NA                                 | NA                        |                    |                |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                              |                                      |                        |                                    |                             |
|----------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>Ryzen 7 7735HS with Radeon Graphics</u>   | 5127                                 | 421                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 PRO 6850U</u>              | 5130                                 | 420                    | NA                                 | NA                          |
| <u>Radeon R9 M295X</u>                       | 5150                                 | 419                    | <a href="#">3.55</a>               | <a href="#">\$1,449.00*</a> |
| <u>Radeon Ryzen 9 6900HS Creator Edition</u> | 5155                                 | 418                    | NA                                 | NA                          |
| <u>Intel Arc 140V GPU</u>                    | 5164                                 | 417                    | NA                                 | NA                          |
| <u>Q12U-1</u>                                | 5164                                 | 416                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 7735HS</u>                 | 5182                                 | 415                    | NA                                 | NA                          |
| <u>Radeon R9 M395X</u>                       | 5194                                 | 414                    | NA                                 | NA                          |
| <u>GRID M60-2Q</u>                           | 5203                                 | 413                    | NA                                 | NA                          |
| <u>Radeon HD 8990</u>                        | 5214                                 | 412                    | NA                                 | NA                          |
| <u>Ryzen 7 7735U with Radeon Graphics</u>    | 5215                                 | 411                    | NA                                 | NA                          |
| Videocard Name                               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>A16</u>                                   | 5235                                 | 410                    | NA                                 | NA                          |
| <u>Ryzen 7 6800HS</u>                        | 5237                                 | 409                    | NA                                 | NA                          |
| <u>Radeon HD 7970 / R9 280X</u>              | 5247                                 | 407                    | <a href="#">21.25</a>              | <a href="#">\$246.99*</a>   |
| <u>Ryzen 7 6800H</u>                         | 5247                                 | 408                    | NA                                 | NA                          |
| <u>FirePro W7100</u>                         | 5251                                 | 406                    | <a href="#">13.49</a>              | <a href="#">\$389.30*</a>   |
| <u>Intel Arc 140T</u>                        | 5262                                 | 405                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 7735H</u>                  | 5287                                 | 404                    | NA                                 | NA                          |
| <u>Ryzen 9 6900HX with Radeon Graphics</u>   | 5287                                 | 403                    | NA                                 | NA                          |
| <u>GeForce GTX 760 Ti</u>                    | 5295                                 | 402                    | <a href="#">17.80</a>              | <a href="#">\$297.50*</a>   |
| <u>Quadro P2000 with Max-Q Design</u>        | 5309                                 | 401                    | NA                                 | NA                          |
| <u>GeForce GTX 1050 Ti with Max-Q Design</u> | 5324                                 | 400                    | NA                                 | NA                          |
| <u>GeForce GTX 670</u>                       | 5325                                 | 399                    | <a href="#">27.46</a>              | <a href="#">\$193.98*</a>   |
| <u>GeForce GTX 950</u>                       | 5343                                 | 398                    | <a href="#">37.63</a>              | <a href="#">\$141.99*</a>   |
| <u>GRID P40-4Q</u>                           | 5364                                 | 397                    | NA                                 | NA                          |
| <u>Ryzen 7 6800HS Creator Edition</u>        | 5382                                 | 396                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 6800H</u>                  | 5383                                 | 395                    | NA                                 | NA                          |
| <u>Intel Arc</u>                             | 5392                                 | 394                    | <a href="#">23.45</a>              | <a href="#">\$229.99</a>    |
| <u>GeForce GTX 760 Ti OEM</u>                | 5427                                 | 393                    | NA                                 | NA                          |
| <u>Radeon Ryzen 7 6800HS Creator Edition</u> | 5432                                 | 392                    | NA                                 | NA                          |

| Videocard Name                                      | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| <a href="#">Intel Arc A310</a>                      | 5472                                          | 389                          | <a href="#">54.73</a>                       | <a href="#">\$99.99*</a>  |
| <a href="#">GeForce GTX 690</a>                     | 5488                                          | 388                          | <a href="#">19.53</a>                       | <a href="#">\$280.99*</a> |
| <a href="#">Meta Virtual Monitor</a>                | 5506                                          | 387                          | NA                                          | NA                        |
| <a href="#">GRID M60-8A</a>                         | 5523                                          | 386                          | NA                                          | NA                        |
| <a href="#">Radeon R9 285 / 380</a>                 | 5549                                          | 385                          | <a href="#">11.44</a>                       | <a href="#">\$485.00*</a> |
| <a href="#">Radeon Pro WX 5100</a>                  | 5553                                          | 384                          | <a href="#">15.43</a>                       | <a href="#">\$359.99*</a> |
| <a href="#">Radeon R9 280</a>                       | 5556                                          | 383                          | NA                                          | NA                        |
| <a href="#">Radeon PRO W6300</a>                    | 5559                                          | 382                          | NA                                          | NA                        |
| <a href="#">Radeon HD 7990</a>                      | 5565                                          | 381                          | <a href="#">13.91</a>                       | <a href="#">\$399.99*</a> |
| <a href="#">Ryzen 7 PRO 6850U</a>                   | 5580                                          | 380                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 680</a>                     | 5581                                          | 379                          | <a href="#">13.99</a>                       | <a href="#">\$399.00*</a> |
| <a href="#">Radeon TM</a>                           | 5616                                          | 378                          | NA                                          | NA                        |
| <a href="#">Ryzen 9 5900HS with Radeon Graphics</a> | 5623                                          | 377                          | NA                                          | NA                        |
| <a href="#">Radeon RX 5500M</a>                     | 5636                                          | 376                          | NA                                          | NA                        |
| <a href="#">Radeon RX 6300</a>                      | 5648                                          | 375                          | NA                                          | NA                        |
| <a href="#">Quadro M3000M</a>                       | 5650                                          | 374                          | <a href="#">35.33</a>                       | <a href="#">\$159.95*</a> |
| <a href="#">RadeonT 680M Ryzen 7 7735HS</a>         | 5650                                          | 373                          | NA                                          | NA                        |
| <a href="#">Intel Arc Pro</a>                       | 5672                                          | 372                          | NA                                          | NA                        |
| <a href="#">GRID T4-8Q</a>                          | 5680                                          | 371                          | NA                                          | NA                        |
| <a href="#">Parsec Virtual Display Adapter</a>      | 5681                                          | 370                          | NA                                          | NA                        |
| <a href="#">Radeon Ryzen 7 PRO 6850H</a>            | 5694                                          | 369                          | NA                                          | NA                        |
| <a href="#">Radeon 760M</a>                         | 5705                                          | 368                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 970M</a>                    | 5710                                          | 367                          | <a href="#">27.19</a>                       | <a href="#">\$209.99*</a> |
| <a href="#">GeForce MX570</a>                       | 5729                                          | 366                          | NA                                          | NA                        |
| <a href="#">Radeon PRO Ryzen 7 PRO 6850U</a>        | 5729                                          | 365                          | NA                                          | NA                        |
| <a href="#">Ryzen 9 PRO 6950H</a>                   | 5758                                          | 364                          | NA                                          | NA                        |
| <a href="#">Matrox LUMA A380P</a>                   | 5805                                          | 363                          | NA                                          | NA                        |
| <a href="#">Tesla K80</a>                           | 5852                                          | 362                          | <a href="#">9.85</a>                        | <a href="#">\$593.95*</a> |
| Videocard Name                                      | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
| <a href="#">Radeon Ryzen 9 PRO 6950H</a>            | 5873                                          | 361                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 1050 Ti (Mobile)</a>        | 5918                                          | 360                          | NA                                          | NA                        |

| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)            |
|-----------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|---------------------------|
| CPU<br>Benchmarks                                         | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks         |
|                                                           |                          |                          |                      |                  |                                               |                              |                                             |                           |
| <a href="#">Radeon Ryzen 7 6810U</a>                      |                          |                          |                      |                  | 5937                                          | 357                          | NA                                          | NA                        |
| <a href="#">GRID P100-16Q</a>                             |                          |                          |                      |                  | 5944                                          | 356                          | NA                                          | NA                        |
| <a href="#">Radeon Pro 5300M</a>                          |                          |                          |                      |                  | 5971                                          | 355                          | NA                                          | NA                        |
| <a href="#">Quadro K5200</a>                              |                          |                          |                      |                  | 6096                                          | 354                          | <a href="#">14.69</a>                       | <a href="#">\$415.00*</a> |
| <a href="#">GeForce GTX 960</a>                           |                          |                          |                      |                  | 6097                                          | 352                          | <a href="#">35.45</a>                       | <a href="#">\$172.00*</a> |
| <a href="#">Ryzen 9 6900HS with Radeon Graphics</a>       |                          |                          |                      |                  | 6097                                          | 353                          | NA                                          | NA                        |
| <a href="#">Radeon R9 380</a>                             |                          |                          |                      |                  | 6103                                          | 351                          | <a href="#">67.83</a>                       | <a href="#">\$89.99*</a>  |
| <a href="#">Radeon Ryzen 7 6800HS</a>                     |                          |                          |                      |                  | 6104                                          | 350                          | NA                                          | NA                        |
| <a href="#">FirePro W9000</a>                             |                          |                          |                      |                  | 6138                                          | 349                          | <a href="#">7.26</a>                        | <a href="#">\$845.00*</a> |
| <a href="#">Quadro M4000M</a>                             |                          |                          |                      |                  | 6146                                          | 348                          | <a href="#">24.11</a>                       | <a href="#">\$254.91*</a> |
| <a href="#">Radeon R9 280X</a>                            |                          |                          |                      |                  | 6151                                          | 347                          | NA                                          | NA                        |
| <a href="#">Radeon R9 380X</a>                            |                          |                          |                      |                  | 6162                                          | 346                          | <a href="#">17.61</a>                       | <a href="#">\$349.99*</a> |
| <a href="#">Tesla M6</a>                                  |                          |                          |                      |                  | 6171                                          | 345                          | <a href="#">31.01</a>                       | <a href="#">\$199.00*</a> |
| <a href="#">GeForce MX570 A</a>                           |                          |                          |                      |                  | 6174                                          | 344                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 1650 with Max-Q Design</a>        |                          |                          |                      |                  | 6204                                          | 343                          | NA                                          | NA                        |
| <a href="#">Intel Arc A380</a>                            |                          |                          |                      |                  | 6233                                          | 342                          | <a href="#">51.95</a>                       | <a href="#">\$119.99</a>  |
| <a href="#">GeForce GTX 1050 Ti</a>                       |                          |                          |                      |                  | 6321                                          | 341                          | <a href="#">13.16</a>                       | <a href="#">\$480.44</a>  |
| <a href="#">Radeon Pro 570</a>                            |                          |                          |                      |                  | 6336                                          | 340                          | NA                                          | NA                        |
| <a href="#">Radeon RX 6300M</a>                           |                          |                          |                      |                  | 6421                                          | 339                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 1650 Ti with Max-Q Design</a>     |                          |                          |                      |                  | 6452                                          | 338                          | NA                                          | NA                        |
| <a href="#">Radeon RX 580X</a>                            |                          |                          |                      |                  | 6458                                          | 337                          | NA                                          | NA                        |
| <a href="#">Quadro T1000</a>                              |                          |                          |                      |                  | 6469                                          | 336                          | <a href="#">17.49</a>                       | <a href="#">\$369.99*</a> |
| <a href="#">T600</a>                                      |                          |                          |                      |                  | 6481                                          | 335                          | <a href="#">27.01</a>                       | <a href="#">\$239.99*</a> |
| <a href="#">Quadro P3000</a>                              |                          |                          |                      |                  | 6486                                          | 334                          | NA                                          | NA                        |
| <a href="#">P106-100</a>                                  |                          |                          |                      |                  | 6541                                          | 333                          | NA                                          | NA                        |
| <a href="#">Radeon RX Vega M GH</a>                       |                          |                          |                      |                  | 6575                                          | 332                          | NA                                          | NA                        |
| <a href="#">Quadro M4000</a>                              |                          |                          |                      |                  | 6669                                          | 331                          | <a href="#">18.42</a>                       | <a href="#">\$362.00*</a> |
| <a href="#">Ryzen 7 6800HS with Radeon Graphics</a>       |                          |                          |                      |                  | 6677                                          | 330                          | NA                                          | NA                        |
| <a href="#">GeForce GTX 970XM FORCE</a>                   |                          |                          |                      |                  | 6706                                          | 329                          | NA                                          | NA                        |
| <a href="#">Radeon Pro WX 7130</a>                        |                          |                          |                      |                  | 6715                                          | 328                          | NA                                          | NA                        |
| <a href="#">RTX A500 Laptop GPU</a>                       |                          |                          |                      |                  | 6726                                          | 327                          | NA                                          | NA                        |
| <a href="#">Quadro T1000 with Max-Q Design</a>            |                          |                          |                      |                  | 6729                                          | 326                          | NA                                          | NA                        |

| Videocard Name                                      | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
|-----------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| <a href="#">Intel Arc 140T GPU</a>                  | 6784                                          | 323                          | NA                                          | NA                          |
| <a href="#">GeForce RTX 3050 4GB Laptop GPU</a>     | 6841                                          | 322                          | NA                                          | NA                          |
| <a href="#">GRID P4-4Q</a>                          | 6843                                          | 321                          | NA                                          | NA                          |
| <a href="#">Quadro T2000 with Max-Q Design</a>      | 6896                                          | 320                          | NA                                          | NA                          |
| <a href="#">Quadro P2000</a>                        | 6941                                          | 319                          | <a href="#">15.79</a>                       | <a href="#">\$439.60*</a>   |
| <a href="#">AMD Ryzen Z1 Extreme</a>                | 6943                                          | 318                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1650 (Mobile)</a>           | 6968                                          | 317                          | NA                                          | NA                          |
| <a href="#">Intel Arc A530M</a>                     | 6979                                          | 316                          | NA                                          | NA                          |
| <a href="#">Radeon Ryzen 9 6900HS</a>               | 6983                                          | 315                          | NA                                          | NA                          |
| <a href="#">Quadro M5000M</a>                       | 6999                                          | 314                          | <a href="#">12.80</a>                       | <a href="#">\$546.92*</a>   |
| <a href="#">Radeon 780M</a>                         | 7026                                          | 313                          | NA                                          | NA                          |
| Videocard Name                                      | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <a href="#">A10-8Q</a>                              | 7041                                          | 312                          | NA                                          | NA                          |
| <a href="#">T600 Laptop GPU</a>                     | 7054                                          | 311                          | NA                                          | NA                          |
| <a href="#">RadeonT 780M</a>                        | 7104                                          | 310                          | NA                                          | NA                          |
| <a href="#">Radeon Pro 5300</a>                     | 7143                                          | 309                          | NA                                          | NA                          |
| <a href="#">Tesla P100-PCIE-16GB</a>                | 7225                                          | 308                          | <a href="#">1.27</a>                        | <a href="#">\$5,699.00*</a> |
| <a href="#">Quadro T2000</a>                        | 7247                                          | 307                          | <a href="#">13.72</a>                       | <a href="#">\$528.35*</a>   |
| <a href="#">FirePro W8100</a>                       | 7332                                          | 306                          | <a href="#">10.42</a>                       | <a href="#">\$704.00*</a>   |
| <a href="#">Radeon Pro W5500X</a>                   | 7350                                          | 305                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 980M</a>                    | 7357                                          | 304                          | <a href="#">25.37</a>                       | <a href="#">\$289.99*</a>   |
| <a href="#">FirePro W9100</a>                       | 7366                                          | 303                          | <a href="#">4.26</a>                        | <a href="#">\$1,729.99*</a> |
| <a href="#">Ryzen 9 4900HS with Radeon Graphics</a> | 7418                                          | 302                          | NA                                          | NA                          |
| <a href="#">GRID P40-8Q</a>                         | 7432                                          | 301                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1650 Ti</a>                 | 7529                                          | 300                          | NA                                          | NA                          |
| <a href="#">Radeon Pro 580X</a>                     | 7540                                          | 299                          | NA                                          | NA                          |
| <a href="#">Tesla M60</a>                           | 7551                                          | 298                          | <a href="#">9.58</a>                        | <a href="#">\$787.90*</a>   |
| <a href="#">Radeon RX 5300</a>                      | 7587                                          | 297                          | NA                                          | NA                          |
| <a href="#">Radeon RX 6400</a>                      | 7624                                          | 296                          | <a href="#">47.95</a>                       | <a href="#">\$159.00</a>    |
| <a href="#">T1000</a>                               | 7631                                          | 295                          | <a href="#">25.10</a>                       | <a href="#">\$303.99*</a>   |
| <a href="#">T1000 8GB</a>                           | 7643                                          | 294                          | NA                                          | NA                          |

| CPU Benchmarks |  | Video Card Benchmarks                      | Hard Drive Benchmarks                | Memory Benchmarks | PC Benchmarks          | Software Marketshare               | Database Benchmarks         | Android Benchmarks | iOS Benchmarks |
|----------------|--|--------------------------------------------|--------------------------------------|-------------------|------------------------|------------------------------------|-----------------------------|--------------------|----------------|
|                |  | Videocard Name                             | Passmark G3D Mark (higher is better) |                   | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |                    |                |
|                |  | <u>Radeon RX 6500M</u>                     | 7737                                 |                   | 291                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon Pro 580</u>                      | 7753                                 |                   | 290                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce RTX 2050</u>                    | 7758                                 |                   | 289                    | NA                                 | NA                          |                    |                |
|                |  | <u>T1200 Laptop GPU</u>                    | 7777                                 |                   | 288                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon Pro WX 7100</u>                  | 7817                                 |                   | 287                    | <a href="#">7.46</a>               | <a href="#">\$1,047.99*</a> |                    |                |
|                |  | <u>Radeon RX 6500</u>                      | 7817                                 |                   | 286                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce GTX 1060 with Max-Q Design</u>  | 7818                                 |                   | 285                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon 880M</u>                         | 7820                                 |                   | 284                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce GTX 1650</u>                    | 7877                                 |                   | 283                    | <a href="#">37.51</a>              | <a href="#">\$209.99</a>    |                    |                |
|                |  | <u>RTX 2000E Ada Generation</u>            | 7910                                 |                   | 282                    | NA                                 | NA                          |                    |                |
|                |  | <u>Quadro M5500</u>                        | 7915                                 |                   | 281                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon RX 470/570</u>                   | 7983                                 |                   | 280                    | <a href="#">20.52</a>              | <a href="#">\$388.99*</a>   |                    |                |
|                |  | <u>Ryzen 9 6900HS</u>                      | 8005                                 |                   | 279                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce GTX 780</u>                     | 8012                                 |                   | 278                    | <a href="#">28.62</a>              | <a href="#">\$279.99*</a>   |                    |                |
|                |  | <u>Quadro K6000</u>                        | 8039                                 |                   | 277                    | <a href="#">38.17</a>              | <a href="#">\$210.66*</a>   |                    |                |
|                |  | <u>Radeon PRO W6400</u>                    | 8089                                 |                   | 276                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce RTX 5060</u>                    | 8125                                 |                   | 275                    | NA                                 | NA                          |                    |                |
|                |  | <u>CMP 30HX</u>                            | 8135                                 |                   | 274                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon R9 290 / 390</u>                 | 8150                                 |                   | 273                    | <a href="#">21.45</a>              | <a href="#">\$380.00*</a>   |                    |                |
|                |  | <u>GeForce GTX 1060 (Mobile)</u>           | 8160                                 |                   | 272                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon Pro Duo</u>                      | 8183                                 |                   | 271                    | <a href="#">2.06</a>               | <a href="#">\$3,970.36*</a> |                    |                |
|                |  | <u>Radeon Pro 5500 XT</u>                  | 8219                                 |                   | 270                    | NA                                 | NA                          |                    |                |
|                |  | <u>GeForce GTX Titan</u>                   | 8223                                 |                   | 269                    | <a href="#">11.04</a>              | <a href="#">\$745.00*</a>   |                    |                |
|                |  | <u>Radeon R9 290</u>                       | 8256                                 |                   | 268                    | NA                                 | NA                          |                    |                |
|                |  | <u>CMP 40HX</u>                            | 8301                                 |                   | 267                    | NA                                 | NA                          |                    |                |
|                |  | <u>Quadro RTX 3000 with Max-Q Design</u>   | 8345                                 |                   | 266                    | NA                                 | NA                          |                    |                |
|                |  | <u>Ryzen 5 4600HS with Radeon Graphics</u> | 8370                                 |                   | 265                    | NA                                 | NA                          |                    |                |
|                |  | <u>Radeon 890M</u>                         | 8375                                 |                   | 264                    | NA                                 | NA                          |                    |                |
|                |  | Videocard Name                             | Passmark G3D Mark (higher is better) |                   | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |                    |                |
|                |  | <u>Radeon R9 290X / 390X</u>               | 8389                                 |                   | 263                    | <a href="#">26.22</a>              | <a href="#">\$319.99*</a>   |                    |                |
|                |  | <u>GRID RTX6000-1B</u>                     | 8473                                 |                   | 262                    | NA                                 | NA                          |                    |                |

| CPU Benchmarks |  | Video Card Benchmarks                                 | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks              |
|----------------|--|-------------------------------------------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
|                |  | Videocard Name                                        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">Radeon RX 480</a>                         |                       |                   |               | 8595                                 | 259                    | <a href="#">25.28</a>              | <a href="#">\$339.99*</a>   |
|                |  | <a href="#">GeForce GTX 1660 Ti with Max-Q Design</a> |                       |                   |               | 8606                                 | 258                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX590 GME</a>                      |                       |                   |               | 8625                                 | 257                    | NA                                 | NA                          |
|                |  | <a href="#">GRID P40-24Q</a>                          |                       |                   |               | 8719                                 | 256                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 5500</a>                        |                       |                   |               | 8781                                 | 255                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro P3200</a>                          |                       |                   |               | 8800                                 | 254                    | <a href="#">22.61</a>              | <a href="#">\$389.30*</a>   |
|                |  | <a href="#">Radeon RX 5600M</a>                       |                       |                   |               | 8808                                 | 253                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 580</a>                         |                       |                   |               | 8847                                 | 252                    | <a href="#">49.15</a>              | <a href="#">\$179.99*</a>   |
|                |  | <a href="#">Radeon R9 390</a>                         |                       |                   |               | 8902                                 | 251                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX TITAN Z</a>                   |                       |                   |               | 8904                                 | 250                    | <a href="#">5.88</a>               | <a href="#">\$1,515.00*</a> |
|                |  | <a href="#">Tesla P4</a>                              |                       |                   |               | 8987                                 | 249                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX TITAN Black</a>               |                       |                   |               | 9036                                 | 248                    | <a href="#">6.78</a>               | <a href="#">\$1,333.56</a>  |
|                |  | <a href="#">Quadro P3200 with Max-Q Design</a>        |                       |                   |               | 9077                                 | 247                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro P4000 with Max-Q Design</a>        |                       |                   |               | 9082                                 | 246                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 1060 5GB</a>                  |                       |                   |               | 9091                                 | 245                    | <a href="#">18.63</a>              | <a href="#">\$487.99*</a>   |
|                |  | <a href="#">Radeon Pro W5500</a>                      |                       |                   |               | 9117                                 | 244                    | <a href="#">22.24</a>              | <a href="#">\$409.99*</a>   |
|                |  | <a href="#">Radeon RX 5500 XT</a>                     |                       |                   |               | 9119                                 | 243                    | <a href="#">50.31</a>              | <a href="#">\$181.29*</a>   |
|                |  | <a href="#">Radeon Pro 5600M</a>                      |                       |                   |               | 9232                                 | 242                    | NA                                 | NA                          |
|                |  | <a href="#">Intel Arc Pro A60</a>                     |                       |                   |               | 9300                                 | 241                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro P2200</a>                          |                       |                   |               | 9355                                 | 240                    | <a href="#">20.35</a>              | <a href="#">\$459.80*</a>   |
|                |  | <a href="#">Radeon RX 590</a>                         |                       |                   |               | 9390                                 | 239                    | <a href="#">17.07</a>              | <a href="#">\$549.99*</a>   |
|                |  | <a href="#">Quadro M5000</a>                          |                       |                   |               | 9392                                 | 238                    | <a href="#">18.82</a>              | <a href="#">\$499.00*</a>   |
|                |  | <a href="#">Radeon R9 390X</a>                        |                       |                   |               | 9408                                 | 237                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 3050 Laptop GPU</a>           |                       |                   |               | 9480                                 | 236                    | <a href="#">35.11</a>              | <a href="#">\$269.99*</a>   |
|                |  | <a href="#">GeForce GTX 780 Ti</a>                    |                       |                   |               | 9512                                 | 235                    | <a href="#">27.98</a>              | <a href="#">\$339.99*</a>   |
|                |  | <a href="#">Radeon R9 Fury</a>                        |                       |                   |               | 9555                                 | 234                    | <a href="#">21.57</a>              | <a href="#">\$443.10*</a>   |
|                |  | <a href="#">Radeon RX 6500 XT</a>                     |                       |                   |               | 9557                                 | 233                    | <a href="#">56.55</a>              | <a href="#">\$169.00</a>    |
|                |  | <a href="#">RTX A1000 Laptop GPU</a>                  |                       |                   |               | 9559                                 | 232                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon R9 Fury X</a>                      |                       |                   |               | 9576                                 | 231                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 970</a>                       |                       |                   |               | 9632                                 | 230                    | <a href="#">40.47</a>              | <a href="#">\$237.99*</a>   |
|                |  | <a href="#">Radeon RX 6550M</a>                       |                       |                   |               | 9694                                 | 229                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 2060 with Max-Q Design</a>    |                       |                   |               | 9736                                 | 228                    | NA                                 | NA                          |

|                                                    |                                               |                              |                                             |                             |
|----------------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| <a href="#">GRID P40-2B</a>                        | 9842                                          | 225                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1070 with Max-Q Design</a> | 9890                                          | 224                          | NA                                          | NA                          |
| <a href="#">RTX A2000 Laptop GPU</a>               | 9902                                          | 223                          | NA                                          | NA                          |
| <a href="#">RTX A1000 6GB Laptop GPU</a>           | 10063                                         | 222                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1060</a>                   | 10085                                         | 221                          | <a href="#">29.67</a>                       | <a href="#">\$339.99</a>    |
| <a href="#">GeForce RTX 3050 Ti Laptop GPU</a>     | 10128                                         | 220                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1660 Ti (Mobile)</a>       | 10161                                         | 219                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1650 SUPER</a>             | 10164                                         | 218                          | <a href="#">45.77</a>                       | <a href="#">\$222.06*</a>   |
| <a href="#">GeForce RTX 3050 6GB Laptop GPU</a>    | 10302                                         | 217                          | NA                                          | NA                          |
| <a href="#">SuperDisplay Virtual Adapter</a>       | 10390                                         | 216                          | NA                                          | NA                          |
| <a href="#">Tesla M40 24GB</a>                     | 10417                                         | 215                          | NA                                          | NA                          |
| Videocard Name                                     | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <a href="#">Tesla M40</a>                          | 10448                                         | 214                          | <a href="#">17.41</a>                       | <a href="#">\$600.00*</a>   |
| <a href="#">GeForce GTX 1070 (Mobile)</a>          | 10465                                         | 213                          | NA                                          | NA                          |
| <a href="#">Intel Arc A730M</a>                    | 10487                                         | 212                          | NA                                          | NA                          |
| <a href="#">Radeon PRO W6600M</a>                  | 10525                                         | 211                          | NA                                          | NA                          |
| <a href="#">Quadro P4200</a>                       | 10654                                         | 210                          | NA                                          | NA                          |
| <a href="#">GeForce RTX 3050 6GB</a>               | 10682                                         | 209                          | <a href="#">64.75</a>                       | <a href="#">\$164.99</a>    |
| <a href="#">Tesla T4</a>                           | 10750                                         | 208                          | <a href="#">2.43</a>                        | <a href="#">\$4,420.46*</a> |
| <a href="#">RTX A1000</a>                          | 10850                                         | 207                          | NA                                          | NA                          |
| <a href="#">RTX A2000 8GB Laptop GPU</a>           | 10880                                         | 206                          | NA                                          | NA                          |
| <a href="#">RTX A4500 Embedded GPU</a>             | 10916                                         | 205                          | NA                                          | NA                          |
| <a href="#">A10-12Q</a>                            | 10955                                         | 204                          | NA                                          | NA                          |
| <a href="#">Radeon Pro SSG</a>                     | 10971                                         | 203                          | <a href="#">4.55</a>                        | <a href="#">\$2,410.15*</a> |
| <a href="#">RTX 500 Ada Generation Laptop GPU</a>  | 10973                                         | 202                          | NA                                          | NA                          |
| <a href="#">Quadro RTX 3000</a>                    | 11020                                         | 201                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 980</a>                    | 11110                                         | 200                          | <a href="#">44.92</a>                       | <a href="#">\$247.35*</a>   |
| <a href="#">Radeon Pro Vega 48</a>                 | 11299                                         | 199                          | NA                                          | NA                          |
| <a href="#">GeForce RTX 2060 (Mobile)</a>          | 11354                                         | 198                          | NA                                          | NA                          |
| <a href="#">RTX A1000 Embedded GPU</a>             | 11368                                         | 197                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1080 with Max-Q Design</a> | 11369                                         | 196                          | NA                                          | NA                          |

| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
|-----------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| CPU<br>Benchmarks                                         | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks           |
| <a href="#">Quadro P4000</a>                              |                          |                          |                      |                  | 11603                                         | 193                          | <a href="#">20.86</a>                       | <a href="#">\$556.19*</a>   |
| <a href="#">GeForce RTX 2070 with Max-Q Design</a>        |                          |                          |                      |                  | 11608                                         | 192                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1660</a>                          |                          |                          |                      |                  | 11660                                         | 191                          | <a href="#">34.31</a>                       | <a href="#">\$339.90*</a>   |
| <a href="#">L40-8Q</a>                                    |                          |                          |                      |                  | 11670                                         | 190                          | NA                                          | NA                          |
| <a href="#">GeForce RTX 3050 A Laptop GPU</a>             |                          |                          |                      |                  | 11744                                         | 189                          | NA                                          | NA                          |
| <a href="#">Quadro M6000</a>                              |                          |                          |                      |                  | 11758                                         | 188                          | <a href="#">2.39</a>                        | <a href="#">\$4,914.90*</a> |
| <a href="#">Quadro M6000 24GB</a>                         |                          |                          |                      |                  | 11823                                         | 187                          | NA                                          | NA                          |
| <a href="#">Radeon Pro 5700</a>                           |                          |                          |                      |                  | 11844                                         | 186                          | NA                                          | NA                          |
| <a href="#">Intel Arc A770M</a>                           |                          |                          |                      |                  | 11908                                         | 185                          | NA                                          | NA                          |
| <a href="#">Intel Arc A580</a>                            |                          |                          |                      |                  | 11944                                         | 184                          | <a href="#">70.27</a>                       | <a href="#">\$169.99*</a>   |
| <a href="#">GeForce RTX 3050 OEM</a>                      |                          |                          |                      |                  | 11960                                         | 183                          | <a href="#">36.56</a>                       | <a href="#">\$327.15</a>    |
| <a href="#">Quadro P5200</a>                              |                          |                          |                      |                  | 12045                                         | 182                          | NA                                          | NA                          |
| <a href="#">Intel Arc A750</a>                            |                          |                          |                      |                  | 12250                                         | 181                          | <a href="#">61.26</a>                       | <a href="#">\$199.99</a>    |
| <a href="#">Radeon Pro V520 MxGPU</a>                     |                          |                          |                      |                  | 12257                                         | 180                          | NA                                          | NA                          |
| <a href="#">Tesla P40</a>                                 |                          |                          |                      |                  | 12266                                         | 179                          | NA                                          | NA                          |
| <a href="#">Radeon RX 6850M</a>                           |                          |                          |                      |                  | 12274                                         | 178                          | NA                                          | NA                          |
| <a href="#">Radeon Pro WX 9100</a>                        |                          |                          |                      |                  | 12285                                         | 177                          | NA                                          | NA                          |
| <a href="#">Quadro RTX 4000 (Mobile)</a>                  |                          |                          |                      |                  | 12305                                         | 176                          | NA                                          | NA                          |
| <a href="#">Tesla V100-PCIE-16GB</a>                      |                          |                          |                      |                  | 12328                                         | 175                          | NA                                          | NA                          |
| <a href="#">Radeon Pro Vega 56</a>                        |                          |                          |                      |                  | 12353                                         | 174                          | NA                                          | NA                          |
| <a href="#">GeForce RTX 2070 (Mobile)</a>                 |                          |                          |                      |                  | 12354                                         | 173                          | NA                                          | NA                          |
| <a href="#">Radeon RX 5600 OEM</a>                        |                          |                          |                      |                  | 12383                                         | 172                          | NA                                          | NA                          |
| <a href="#">Radeon RX 6600S</a>                           |                          |                          |                      |                  | 12444                                         | 171                          | NA                                          | NA                          |
| <a href="#">RTX A3000 Laptop GPU</a>                      |                          |                          |                      |                  | 12513                                         | 170                          | NA                                          | NA                          |
| <a href="#">Radeon Pro 5700 XT</a>                        |                          |                          |                      |                  | 12567                                         | 169                          | NA                                          | NA                          |
| <a href="#">Quadro P5200 with Max-Q Design</a>            |                          |                          |                      |                  | 12568                                         | 168                          | NA                                          | NA                          |
| <a href="#">Quadro RTX 4000 with Max-Q Design</a>         |                          |                          |                      |                  | 12569                                         | 167                          | NA                                          | NA                          |
| <a href="#">Quadro P5000</a>                              |                          |                          |                      |                  | 12624                                         | 166                          | <a href="#">6.75</a>                        | <a href="#">\$1,868.99*</a> |
| Videocard Name                                            |                          |                          |                      |                  | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <a href="#">Tesla T10</a>                                 |                          |                          |                      |                  | 12650                                         | 165                          | NA                                          | NA                          |
| <a href="#">GeForce GTX 1660 SUPER</a>                    |                          |                          |                      |                  | 12725                                         | 164                          | <a href="#">56.02</a>                       | <a href="#">\$227.15</a>    |

| CPU Benchmarks |  | Video Card Benchmarks                                    | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks              |
|----------------|--|----------------------------------------------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
|                |  | Videocard Name                                           |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
|                |  | <a href="#">GeForce GTX 1660 Ti</a>                      |                       |                   |               | 12905                                | 161                    | <a href="#">41.93</a>              | <a href="#">\$307.79</a>    |
|                |  | <a href="#">GeForce GTX TITAN X</a>                      |                       |                   |               | 12919                                | 160                    | <a href="#">11.78</a>              | <a href="#">\$1,096.99*</a> |
|                |  | <a href="#">Radeon Pro Vega 64</a>                       |                       |                   |               | 12920                                | 159                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 2080 with Max-Q Design</a>       |                       |                   |               | 12967                                | 158                    | <a href="#">6.18</a>               | <a href="#">\$2,099.99*</a> |
|                |  | <a href="#">Radeon Vega Frontier Edition</a>             |                       |                   |               | 13013                                | 157                    | <a href="#">7.75</a>               | <a href="#">\$1,679.99*</a> |
|                |  | <a href="#">Radeon PRO W6600X</a>                        |                       |                   |               | 13113                                | 156                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 7800M</a>                          |                       |                   |               | 13117                                | 155                    | NA                                 | NA                          |
|                |  | <a href="#">Quadro RTX 5000 with Max-Q Design</a>        |                       |                   |               | 13138                                | 154                    | NA                                 | NA                          |
|                |  | <a href="#">Intel Arc A770</a>                           |                       |                   |               | 13156                                | 153                    | <a href="#">43.86</a>              | <a href="#">\$299.99</a>    |
|                |  | <a href="#">Radeon RX Vega 56</a>                        |                       |                   |               | 13174                                | 152                    | <a href="#">17.50</a>              | <a href="#">\$752.99*</a>   |
|                |  | <a href="#">Radeon Pro WX 8200</a>                       |                       |                   |               | 13224                                | 151                    | <a href="#">8.27</a>               | <a href="#">\$1,599.39*</a> |
|                |  | <a href="#">Intel Arc B570</a>                           |                       |                   |               | 13225                                | 150                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 7600M XT</a>                       |                       |                   |               | 13231                                | 149                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 3060 Laptop GPU</a>              |                       |                   |               | 13305                                | 148                    | <a href="#">42.92</a>              | <a href="#">\$309.99*</a>   |
|                |  | <a href="#">Radeon RX 6800M</a>                          |                       |                   |               | 13337                                | 147                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Pro Vega 64X</a>                      |                       |                   |               | 13369                                | 146                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 6700M</a>                          |                       |                   |               | 13497                                | 145                    | <a href="#">49.99</a>              | <a href="#">\$269.99*</a>   |
|                |  | <a href="#">GeForce GTX 1070</a>                         |                       |                   |               | 13507                                | 144                    | <a href="#">30.70</a>              | <a href="#">\$439.99</a>    |
|                |  | <a href="#">Radeon RX 5600 XT</a>                        |                       |                   |               | 13556                                | 143                    | <a href="#">24.87</a>              | <a href="#">\$545.00*</a>   |
|                |  | <a href="#">RTX 1000 Ada Generation Laptop GPU</a>       |                       |                   |               | 13591                                | 142                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 2070 Super with Max-Q Design</a> |                       |                   |               | 13624                                | 141                    | NA                                 | NA                          |
|                |  | <a href="#">RTX A2000</a>                                |                       |                   |               | 13630                                | 140                    | <a href="#">31.38</a>              | <a href="#">\$434.33*</a>   |
|                |  | <a href="#">NVIDIA TITAN X</a>                           |                       |                   |               | 13659                                | 139                    | <a href="#">22.46</a>              | <a href="#">\$608.10*</a>   |
|                |  | <a href="#">GeForce RTX 2080 Super with Max-Q Design</a> |                       |                   |               | 13707                                | 137                    | NA                                 | NA                          |
|                |  | <a href="#">RTX A2000 12GB</a>                           |                       |                   |               | 13707                                | 138                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon PRO W7500</a>                         |                       |                   |               | 13714                                | 136                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce GTX 980 Ti</a>                       |                       |                   |               | 13792                                | 135                    | <a href="#">21.40</a>              | <a href="#">\$644.61*</a>   |
|                |  | <a href="#">RadeonT RX 6850M XT</a>                      |                       |                   |               | 13847                                | 134                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon RX 6600M</a>                          |                       |                   |               | 13899                                | 133                    | <a href="#">69.50</a>              | <a href="#">\$199.99*</a>   |
|                |  | <a href="#">RTX A3000 12GB Laptop GPU</a>                |                       |                   |               | 13953                                | 132                    | NA                                 | NA                          |
|                |  | <a href="#">Radeon Pro Vega II Duo</a>                   |                       |                   |               | 14018                                | 131                    | NA                                 | NA                          |
|                |  | <a href="#">GeForce RTX 2060</a>                         |                       |                   |               | 14135                                | 130                    | <a href="#">40.51</a>              | <a href="#">\$348.93</a>    |

| CPU Benchmarks |  | Video Card Benchmarks | Hard Drive Benchmarks | Memory Benchmarks | PC Benchmarks | Software Marketshare                 | Database Benchmarks    | Android Benchmarks                 | iOS Benchmarks |
|----------------|--|-----------------------|-----------------------|-------------------|---------------|--------------------------------------|------------------------|------------------------------------|----------------|
|                |  | Videocard Name        |                       |                   |               | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)    |

|                                           |                                      |                        |                                    |                             |
|-------------------------------------------|--------------------------------------|------------------------|------------------------------------|-----------------------------|
| <u>Radeon RX 5700</u>                     | 14385                                | 127                    | <a href="#">46.41</a>              | <a href="#">\$309.99*</a>   |
| <u>GeForce RTX 4050 Laptop GPU</u>        | 14430                                | 126                    | NA                                 | NA                          |
| <u>NVIDIA A40</u>                         | 14664                                | 125                    | NA                                 | NA                          |
| <u>GeForce GTX 1070 Ti</u>                | 14687                                | 124                    | <a href="#">25.77</a>              | <a href="#">\$569.99*</a>   |
| <u>Radeon Pro W5700</u>                   | 14796                                | 123                    | <a href="#">22.76</a>              | <a href="#">\$649.99*</a>   |
| <u>Quadro RTX 5000 (Mobile)</u>           | 14832                                | 122                    | NA                                 | NA                          |
| <u>Radeon RX 7600S</u>                    | 14940                                | 121                    | NA                                 | NA                          |
| <u>Radeon RX 6700S</u>                    | 14980                                | 120                    | <a href="#">49.94</a>              | <a href="#">\$299.99*</a>   |
| <u>Radeon 610M Ryzen 9 7845HX</u>         | 14990                                | 119                    | NA                                 | NA                          |
| <u>Radeon RX 6650M</u>                    | 14998                                | 118                    | NA                                 | NA                          |
| <u>GeForce RTX 2080 (Mobile)</u>          | 15107                                | 117                    | NA                                 | NA                          |
| Videocard Name                            | Passmark G3D Mark (higher is better) | Rank (lower is better) | Videocard Value (higher is better) | Price (USD)                 |
| <u>RTX A4000 Laptop GPU</u>               | 15110                                | 116                    | NA                                 | NA                          |
| <u>Radeon RX 6600</u>                     | 15130                                | 115                    | <a href="#">75.66</a>              | <a href="#">\$199.99</a>    |
| <u>Quadro GP100</u>                       | 15149                                | 114                    | NA                                 | NA                          |
| <u>RTX 2000 Ada Generation Laptop GPU</u> | 15159                                | 113                    | NA                                 | NA                          |
| <u>Quadro RTX 4000</u>                    | 15229                                | 112                    | <a href="#">16.94</a>              | <a href="#">\$899.00*</a>   |
| <u>Radeon RX 7700S</u>                    | 15306                                | 111                    | NA                                 | NA                          |
| <u>GeForce RTX 3060 8GB</u>               | 15365                                | 110                    | NA                                 | NA                          |
| <u>GeForce RTX 3070 Laptop GPU</u>        | 15401                                | 109                    | NA                                 | NA                          |
| <u>Radeon PRO W6600</u>                   | 15414                                | 108                    | NA                                 | NA                          |
| <u>Quadro P6000</u>                       | 15435                                | 107                    | <a href="#">4.75</a>               | <a href="#">\$3,250.00*</a> |
| <u>Radeon 8060S</u>                       | 15488                                | 106                    | NA                                 | NA                          |
| <u>Intel Arc B580</u>                     | 15528                                | 105                    | NA                                 | NA                          |
| <u>GeForce GTX 1080</u>                   | 15554                                | 104                    | <a href="#">35.13</a>              | <a href="#">\$442.79*</a>   |
| <u>Radeon Pro Vega II</u>                 | 15596                                | 103                    | NA                                 | NA                          |
| <u>Radeon RX 6800S</u>                    | 15711                                | 102                    | NA                                 | NA                          |
| <u>Quadro RTX 5000</u>                    | 15835                                | 101                    | NA                                 | NA                          |
| <u>RTX 3000 Ada Generation Laptop GPU</u> | 15915                                | 100                    | NA                                 | NA                          |
| <u>GeForce RTX 2060 12GB</u>              | 15920                                | 99                     | NA                                 | NA                          |
| <u>Radeon RX 6600 LE</u>                  | 15959                                | 98                     | NA                                 | NA                          |

| Videocard Name                              |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
|---------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| CPU<br>Benchmarks                           | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks           |
| <u>GeForce RTX 3080 Laptop GPU</u>          |                          |                          |                      |                  | 16455                                         | 95                           | NA                                          | NA                          |
| <u>Radeon RX 5700 XT</u>                    |                          |                          |                      |                  | 16472                                         | 94                           | <a href="#">33.73</a>                       | <a href="#">\$488.33*</a>   |
| <u>Radeon RX 6600 XT</u>                    |                          |                          |                      |                  | 16500                                         | 93                           | <a href="#">37.50</a>                       | <a href="#">\$439.99*</a>   |
| <u>GeForce RTX 2060 SUPER</u>               |                          |                          |                      |                  | 16505                                         | 92                           | <a href="#">40.26</a>                       | <a href="#">\$409.99</a>    |
| <u>Radeon RX 5700 XT 50th Anniversary</u>   |                          |                          |                      |                  | 16538                                         | 91                           | NA                                          | NA                          |
| <u>Radeon RX 6750 GRE 10GB</u>              |                          |                          |                      |                  | 16546                                         | 89                           | NA                                          | NA                          |
| <u>Radeon VII</u>                           |                          |                          |                      |                  | 16546                                         | 90                           | <a href="#">8.71</a>                        | <a href="#">\$1,899.95*</a> |
| <u>Radeon RX 7600</u>                       |                          |                          |                      |                  | 16618                                         | 88                           | <a href="#">68.39</a>                       | <a href="#">\$242.99</a>    |
| <u>GeForce RTX 3060 12GB</u>                |                          |                          |                      |                  | 16914                                         | 87                           | <a href="#">56.38</a>                       | <a href="#">\$299.99</a>    |
| <u>TITAN V CEO Edition</u>                  |                          |                          |                      |                  | 16987                                         | 86                           | NA                                          | NA                          |
| <u>RTX 2000 Ada Generation Embedded GPU</u> |                          |                          |                      |                  | 16990                                         | 85                           | NA                                          | NA                          |
| <u>Radeon RX 6650M XT</u>                   |                          |                          |                      |                  | 17070                                         | 84                           | NA                                          | NA                          |
| <u>Radeon RX 7600 XT</u>                    |                          |                          |                      |                  | 17182                                         | 83                           | <a href="#">54.03</a>                       | <a href="#">\$317.99</a>    |
| <u>Radeon RX 6650 XT</u>                    |                          |                          |                      |                  | 17185                                         | 82                           | <a href="#">67.40</a>                       | <a href="#">\$254.99</a>    |
| <u>RTX A4500 Laptop GPU</u>                 |                          |                          |                      |                  | 17309                                         | 81                           | NA                                          | NA                          |
| <u>Radeon RX 6850M XT</u>                   |                          |                          |                      |                  | 17369                                         | 80                           | NA                                          | NA                          |
| <u>RTX 2000 Ada Generation</u>              |                          |                          |                      |                  | 17419                                         | 79                           | NA                                          | NA                          |
| <u>RTX A5500 Laptop GPU</u>                 |                          |                          |                      |                  | 17463                                         | 78                           | NA                                          | NA                          |
| <u>GeForce RTX 4060 Laptop GPU</u>          |                          |                          |                      |                  | 17595                                         | 77                           | NA                                          | NA                          |
| <u>GeForce RTX 3070 Ti Laptop GPU</u>       |                          |                          |                      |                  | 17845                                         | 76                           | NA                                          | NA                          |
| <u>GeForce RTX 2070 SUPER</u>               |                          |                          |                      |                  | 18220                                         | 75                           | <a href="#">33.74</a>                       | <a href="#">\$539.99*</a>   |
| <u>GeForce GTX 1080 Ti</u>                  |                          |                          |                      |                  | 18579                                         | 74                           | <a href="#">38.40</a>                       | <a href="#">\$483.82*</a>   |
| <u>Quadro RTX 6000</u>                      |                          |                          |                      |                  | 18692                                         | 73                           | <a href="#">2.97</a>                        | <a href="#">\$6,300.00*</a> |
| <u>GeForce RTX 2080</u>                     |                          |                          |                      |                  | 18764                                         | 72                           | <a href="#">23.44</a>                       | <a href="#">\$800.61*</a>   |
| <u>NVIDIA A10G</u>                          |                          |                          |                      |                  | 18773                                         | 71                           | NA                                          | NA                          |
| <u>NVIDIA TITAN Xp</u>                      |                          |                          |                      |                  | 18789                                         | 70                           | <a href="#">11.42</a>                       | <a href="#">\$1,645.00*</a> |
| <u>TITAN Xp COLLECTORS EDITION</u>          |                          |                          |                      |                  | 18872                                         | 69                           | NA                                          | NA                          |
| <u>L40S</u>                                 |                          |                          |                      |                  | 18881                                         | 68                           | NA                                          | NA                          |
| Videocard Name                              |                          |                          |                      |                  | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <u>Radeon RX 6700</u>                       |                          |                          |                      |                  | 19260                                         | 67                           | NA                                          | NA                          |
| <u>Quadro RTX 8000</u>                      |                          |                          |                      |                  | 19305                                         | 66                           | <a href="#">5.13</a>                        | <a href="#">\$3,760.00*</a> |

| Video Card (GPU) Benchmark Charts - Video Card Model List |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)    |
|-----------------------------------------------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-------------------|
| CPU<br>Benchmarks                                         | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks |
| GeForce RTX 2080 SUPER                                    |                          |                          |                      |                  | 19549                                         | 63                           | 28.55                                       | \$684.86*         |
| GeForce RTX 4070 Laptop GPU                               |                          |                          |                      |                  | 19584                                         | 62                           | NA                                          | NA                |
| RTX 3500 Ada Generation Laptop GPU                        |                          |                          |                      |                  | 19667                                         | 61                           | NA                                          | NA                |
| Radeon RX 6750 GRE 12GB                                   |                          |                          |                      |                  | 19705                                         | 60                           | NA                                          | NA                |
| GeForce RTX 4060                                          |                          |                          |                      |                  | 19788                                         | 59                           | 66.41                                       | \$297.99          |
| Quadro GV100                                              |                          |                          |                      |                  | 19824                                         | 58                           | 2.20                                        | \$8,999.00*       |
| Radeon PRO W6800                                          |                          |                          |                      |                  | 19832                                         | 57                           | 10.72                                       | \$1,849.99*       |
| Radeon RX 6700 XT                                         |                          |                          |                      |                  | 19841                                         | 56                           | 25.21                                       | \$787.16          |
| TITAN RTX                                                 |                          |                          |                      |                  | 20112                                         | 55                           | 8.05                                        | \$2,499.00*       |
| TITAN V                                                   |                          |                          |                      |                  | 20187                                         | 54                           | 10.09                                       | \$1,999.99*       |
| GeForce RTX 3060 Ti                                       |                          |                          |                      |                  | 20429                                         | 53                           | 45.40                                       | \$449.99          |
| RTX 4000 SFF Ada Generation                               |                          |                          |                      |                  | 20741                                         | 52                           | NA                                          | NA                |
| Radeon RX 6750 XT                                         |                          |                          |                      |                  | 20781                                         | 51                           | 64.36                                       | \$322.89          |
| RTX A4500                                                 |                          |                          |                      |                  | 21522                                         | 50                           | 14.65                                       | \$1,469.00*       |
| GeForce RTX 2080 Ti                                       |                          |                          |                      |                  | 21678                                         | 49                           | 16.74                                       | \$1,295.00        |
| RTX A5500                                                 |                          |                          |                      |                  | 21854                                         | 48                           | 10.07                                       | \$2,169.99*       |
| GRID RTX6000-6Q                                           |                          |                          |                      |                  | 21986                                         | 47                           | NA                                          | NA                |
| NVIDIA A10                                                |                          |                          |                      |                  | 22064                                         | 46                           | NA                                          | NA                |
| Radeon RX 6800                                            |                          |                          |                      |                  | 22128                                         | 45                           | 56.16                                       | \$393.99          |
| GeForce RTX 3070                                          |                          |                          |                      |                  | 22314                                         | 44                           | 40.54                                       | \$550.44          |
| Radeon RX 7700 XT                                         |                          |                          |                      |                  | 22421                                         | 43                           | 56.06                                       | \$399.99          |
| RTX A6000                                                 |                          |                          |                      |                  | 22503                                         | 42                           | 5.48                                        | \$4,109.99*       |
| RTX 4000 Ada Generation Laptop GPU                        |                          |                          |                      |                  | 22576                                         | 41                           | NA                                          | NA                |
| RTX A5000                                                 |                          |                          |                      |                  | 22652                                         | 40                           | 10.16                                       | \$2,229.99*       |
| Radeon PRO W7700                                          |                          |                          |                      |                  | 22747                                         | 39                           | NA                                          | NA                |
| GeForce RTX 4060 Ti                                       |                          |                          |                      |                  | 22776                                         | 38                           | 57.08                                       | \$399.00          |
| GeForce RTX 4060 Ti 16GB                                  |                          |                          |                      |                  | 22835                                         | 37                           | 50.75                                       | \$449.99          |
| Radeon RX 7900M                                           |                          |                          |                      |                  | 23115                                         | 36                           | NA                                          | NA                |
| GeForce RTX 3070 Ti                                       |                          |                          |                      |                  | 23497                                         | 35                           | 33.57                                       | \$699.99          |
| RTX 5000 Ada Generation Laptop GPU                        |                          |                          |                      |                  | 23889                                         | 34                           | NA                                          | NA                |
| Radeon RX 7800 XT                                         |                          |                          |                      |                  | 24219                                         | 33                           | 48.44                                       | \$499.99          |
| RTX 4000 Ada Generation                                   |                          |                          |                      |                  | 24424                                         | 32                           | NA                                          | NA                |

| Videocard Name    |                          |                          |                      |                  | Passmark<br>G3D Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)    |
|-------------------|--------------------------|--------------------------|----------------------|------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-------------------|
| CPU<br>Benchmarks | Video Card<br>Benchmarks | Hard Drive<br>Benchmarks | Memory<br>Benchmarks | PC<br>Benchmarks | Software<br>Marketshare                       | Database<br>Benchmarks       | Android<br>Benchmarks                       | iOS<br>Benchmarks |

|                                             |                                               |                              |                                             |                             |
|---------------------------------------------|-----------------------------------------------|------------------------------|---------------------------------------------|-----------------------------|
| <u>GeForce RTX 3080</u>                     | 25188                                         | 29                           | <a href="#">25.69</a>                       | <a href="#">\$980.46</a>    |
| <u>RTX 3500 Ada Generation Embedded GPU</u> | 25188                                         | 28                           | NA                                          | NA                          |
| <u>GeForce RTX 3080 12GB</u>                | 26634                                         | 27                           | NA                                          | NA                          |
| <u>GeForce RTX 3090</u>                     | 26703                                         | 26                           | <a href="#">14.82</a>                       | <a href="#">\$1,802.22</a>  |
| <u>Radeon RX 6900 XT</u>                    | 26728                                         | 25                           | <a href="#">17.71</a>                       | <a href="#">\$1,509.67*</a> |
| <u>Radeon RX 7900 GRE</u>                   | 26898                                         | 24                           | <a href="#">49.81</a>                       | <a href="#">\$539.99*</a>   |
| <u>GeForce RTX 4070</u>                     | 26949                                         | 23                           | <a href="#">49.00</a>                       | <a href="#">\$549.99</a>    |
| <u>GeForce RTX 3080 Ti</u>                  | 27037                                         | 22                           | <a href="#">19.24</a>                       | <a href="#">\$1,405.19</a>  |
| <u>GeForce RTX 4090 Laptop GPU</u>          | 27688                                         | 21                           | NA                                          | NA                          |
| <u>RTX 5000 Ada Generation Embedded GPU</u> | 27774                                         | 20                           | NA                                          | NA                          |
| <u>RTX 4500 Ada Generation</u>              | 28019                                         | 19                           | NA                                          | NA                          |
| Videocard Name                              | Passmark G3D<br>Mark<br>(higher is<br>better) | Rank<br>(lower is<br>better) | Videocard<br>Value<br>(higher is<br>better) | Price<br>(USD)              |
| <u>RTX 6000 Ada Generation</u>              | 28123                                         | 18                           | NA                                          | NA                          |
| <u>Radeon RX 6950 XT</u>                    | 28151                                         | 17                           | <a href="#">28.15</a>                       | <a href="#">\$999.99*</a>   |
| <u>Radeon PRO W7800</u>                     | 28439                                         | 16                           | NA                                          | NA                          |
| <u>GeForce RTX 4090 D</u>                   | 28686                                         | 15                           | NA                                          | NA                          |
| <u>Radeon RX 7900 XT</u>                    | 28912                                         | 14                           | <a href="#">42.52</a>                       | <a href="#">\$679.99</a>    |
| <u>Radeon PRO W7900</u>                     | 28976                                         | 13                           | NA                                          | NA                          |
| <u>GeForce RTX 3090 Ti</u>                  | 29653                                         | 12                           | <a href="#">17.87</a>                       | <a href="#">\$1,659.00*</a> |
| <u>GeForce RTX 4070 SUPER</u>               | 30042                                         | 11                           | <a href="#">50.07</a>                       | <a href="#">\$599.99</a>    |
| <u>RTX 5000 Ada Generation</u>              | 30839                                         | 10                           | NA                                          | NA                          |
| <u>Radeon RX 7900 XTX</u>                   | 31034                                         | 9                            | <a href="#">33.37</a>                       | <a href="#">\$929.99</a>    |
| <u>GeForce RTX 4070 Ti SUPER</u>            | 31736                                         | 8                            | <a href="#">18.20</a>                       | <a href="#">\$1,743.45</a>  |
| <u>GeForce RTX 4070 Ti</u>                  | 31769                                         | 7                            | <a href="#">36.10</a>                       | <a href="#">\$879.99*</a>   |
| <u>GeForce RTX 4080 SUPER</u>               | 34242                                         | 6                            | <a href="#">31.13</a>                       | <a href="#">\$1,099.99</a>  |
| <u>RTX 5880 Ada Generation</u>              | 34568                                         | 5                            | NA                                          | NA                          |
| <u>GeForce RTX 4080</u>                     | 34585                                         | 4                            | <a href="#">23.09</a>                       | <a href="#">\$1,498.07*</a> |
| <u>GeForce RTX 5080</u>                     | 37287                                         | 3                            | <a href="#">37.32</a>                       | <a href="#">\$999.00*</a>   |
| <u>GeForce RTX 4090</u>                     | 38426                                         | 2                            | <a href="#">17.84</a>                       | <a href="#">\$2,153.94*</a> |
| <u>GeForce RTX 5090</u>                     | 40367                                         | 1                            | NA                                          | NA                          |

\* - Last price seen from our affiliates.

CPU  
Benchmarks

Video Card  
Benchmarks

Hard Drive  
Benchmarks

Memory  
Benchmarks

PC  
Benchmarks

Software  
Marketshare

Database  
Benchmarks

Android  
Benchmarks

iOS  
Benchmarks

|                                        |                                                                |                                           |                                    |                            |                                                                                                            |
|----------------------------------------|----------------------------------------------------------------|-------------------------------------------|------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|
| <a href="#">BurnInTest</a>             | <a href="#">USB3.0<br/>Loopback<br/>Plugs</a>                  | <a href="#">CPU<br/>Benchmarks</a>        | <a href="#">Company</a>            | <a href="#">Store</a>      | <a href="#">Disclaimer</a>                                                                                 |
| <a href="#">PerformanceTest</a>        |                                                                |                                           | <a href="#">Contact Us</a>         |                            |                                                                                                            |
| <a href="#">OSForensics</a>            | <a href="#">USB2.0<br/>Loopback<br/>Plugs</a>                  | <a href="#">Video Card<br/>Benchmarks</a> | <a href="#">The Press<br/>Room</a> | <a href="#">Support</a>    | <a href="#">Refunds</a>                                                                                    |
| <a href="#">MemTest86</a>              |                                                                | <a href="#">Hard Drive<br/>Benchmarks</a> |                                    | <a href="#">Forums</a>     | <a href="#">Privacy</a>                                                                                    |
| <a href="#">WirelessMon</a>            | <a href="#">PCIe Test<br/>Cards</a>                            | <a href="#">RAM<br/>Benchmarks</a>        |                                    | <a href="#">Compliance</a> | <a href="#">Social</a>  |
| <a href="#">Management<br/>Console</a> | <a href="#">USB Power<br/>Delivery Tester</a>                  | <a href="#">PC Systems<br/>Benchmarks</a> |                                    |                            |                         |
| <a href="#">Zoom Search<br/>Engine</a> | <a href="#">Serial and<br/>Parallel<br/>Loopback<br/>Plugs</a> | <a href="#">Software<br/>Marketshare</a>  |                                    |                            |                                                                                                            |
| <a href="#">Free Software</a>          | <a href="#">USB Short<br/>Circuit Testers</a>                  | <a href="#">Database<br/>Benchmarks</a>   |                                    |                            |                                                                                                            |
|                                        |                                                                | <a href="#">Android<br/>Benchmarks</a>    |                                    |                            |                                                                                                            |
|                                        |                                                                | <a href="#">iOS<br/>Benchmarks</a>        |                                    |                            |                                                                                                            |
|                                        |                                                                | <a href="#">Internet<br/>Bandwidth</a>    |                                    |                            |                                                                                                            |

