

Home » Video Card Benchmarks » High End Video Cards

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Videocard Benchmarks

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High End Video Card Chart

This chart made up of thousands of PerformanceTest benchmark results and is updated daily with new graphics card benchmarks. This high end chart contains high performance video cards typically found in premium gaming PCs. Recently introduced ATI video cards (such as the ATI Radeon HD) and nVidia graphics cards (such as the nVidia GTX and nVidia Quadro FX) using the PCI-Express (or PCI-E) standard are common in our high end video card charts.



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G3D Mark | Price Performance
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PassMark - G3D Mark High End Videocards - Updated 31st of January 2019

		Price (USD)
Quadro RTX 6000	21,367	\$6,300.00*
TITAN RTX	18,713	\$2,499.99
TITAN V CEO Edition	16,988	NA
GeForce RTX 2080 Ti	16,957	\$1,279.99
GeForce RTX 2080	15,707	\$699.99
TITAN Xp COLLECTORS EDITION	14,759	NA
TITAN V	14,694	\$3,587.99
GeForce RTX 2070	14,375	\$499.99
GeForce GTX 1080 Ti	14,196	\$899.99*
NVIDIA TITAN Xp	14,190	\$1,894.42
NVIDIA TITAN X	13,565	\$1,200.00*
Quadro P6000	13,276	\$4,246.11
GeForce RTX 2060	13,035	\$349.99
Quadro GP100	12,843	NA
Quadro GV100	12,699	NA
GeForce GTX 1080	12,386	\$639.99
GeForce GTX 1070 Ti	12,304	\$429.99
Radeon Pro Vega 56	11,877	NA
Radeon RX Vega 64	11,863	\$399.99
Radeon RX Vega 56	11,717	\$339.99
GeForce GTX 980 Ti	11,372	\$531.82*

GeForce GTX 1070	11,294	\$309.99
Radeon Vega Frontier Edition	11,093	\$599.99*
Radeon Pro SSG	11,013	NA
Radeon PRO WX 8200	10,807	\$999.00
GeForce GTX TITAN X	10,680	\$1,999.99*
Quadro P5200 with Max-Q Design	10,490	NA
Quadro P4000	10,458	\$749.99
Quadro P4200	10,452	NA
Radeon Pro Vega 64	10,426	NA
Radeon Pro WX 9100	10,372	NA
Quadro RTX 5000	10,294	NA
Quadro P5000	10,287	\$1,779.00
GeForce GTX 1080 with Max-Q Design	10,238	NA
Quadro P4200 with Max-Q Design	10,173	NA
Quadro M6000 24GB	9,904	NA
GeForce GTX 980	9,624	\$609.17
Radeon Pro Duo	9,444	\$449.00*
Quadro M5500	9,323	NA
Quadro M6000	9,287	\$2,850.00
GeForce GTX 1070 with Max-Q Design	9,246	NA
Radeon R9 Fury	9,168	\$399.99*
Quadro P5200	9,167	NA
Radeon RX 590	9,161	\$259.99
Quadro P4000 with Max-Q Design	9,083	NA
GeForce GTX 1060	9,063	\$234.99
GeForce GTX 1060 3GB	8,950	\$184.99
GeForce GTX 780 Ti	8,893	\$749.99*
GeForce GTX TITAN Black	8,617	\$999.99*
GeForce GTX 970	8,614	\$407.76*
Radeon R9 390X	8,546	NA
Quadro M5000	8,481	\$1,498.00*
Radeon R9 Fury + Fury X	8,446	\$399.99*
Radeon RX 580	8,429	\$189.99
Quadro P3200 with Max-Q Design	8,314	NA
Radeon RX 480	8,117	\$179.99
Quadro P3200	8,098	NA
Radeon R9 390	8,084	NA
GeForce GTX 780	7,961	\$740.99*
GeForce GTX Titan	7,933	\$2,054.59*
Radeon Pro WX 7100	7,919	\$499.99
Radeon Pro 580	7,753	NA
Radeon R9 295X2	7,751	\$1,099.99*
GeForce GTX 1060 with Max-Q Design	7,748	NA
GeForce GTX TITAN Z	7,693	\$1,580.00*
Quadro K6000	7,598	\$959.00
Radeon RX 470	7,560	\$99.99*
Quadro P2000	7,432	\$429.99
Radeon R9 290X / 390X	7,425	\$570.00
Tesla M60	7,233	NA
FirePro W9100	7,189	\$2,749.99*
Radeon R9 290 / 390	7,136	\$745.91*

Radeon RX Vega M GH	6,973	NA
Radeon RX 570	6,709	\$99.99
Quadro M4000	6,666	\$450.86
Radeon R9 380X	6,200	\$445.00
Radeon Pro Vega 20	6,151	NA
GeForce GTX 1060 5GB	6,150	NA
Radeon R9 380	6,134	\$264.99*
Quadro K5200	6,100	\$392.00
GeForce GTX 770	6,072	\$449.99*
FirePro W8100	6,066	\$1,049.00*
GeForce GTX 1050 Ti	5,983	\$149.99
GeForce GTX 980M	5,925	NA
GRID M60-2Q	5,904	NA
Radeon R9 280X	5,838	NA
GeForce GTX 960	5,810	\$229.99*
Radeon R9 M395X	5,757	NA
GeForce GTX 1050 Ti with Max-Q Design	5,713	NA
GeForce GTX 680	5,672	\$579.99*
Quadro P3000	5,667	NA
FirePro W7100 Adapter	5,661	NA
Radeon Pro WX 5100	5,570	\$324.99
Radeon R9 285 / 380	5,554	\$310.00
Radeon HD 7990	5,545	\$1,126.99*
Quadro M5000M	5,531	NA
FirePro W9000	5,404	\$3,443.99*
FirePro W7100	5,396	\$289.99
GeForce GTX 690	5,382	\$999.00*
Radeon R9 280	5,378	NA
GeForce GTX 670	5,367	\$474.99*
Radeon HD 7970 / R9 280X	5,248	\$345.00
GeForce GTX 950	5,225	\$194.44*
Radeon RX Vega M GL	5,174	NA
Radeon R9 M295X	5,150	NA
GeForce GTX 760 Ti	5,118	\$297.50*
FirePro S9000	5,022	NA
GeForce GTX 580	5,022	\$289.88*
Radeon R9 M395	5,007	NA
Radeon HD 8990	5,000	NA
GeForce GTX 760	4,939	\$249.99*
Quadro P2000 with Max-Q Design	4,882	NA
Radeon HD 7950 / R9 280	4,765	\$393.98
FirePro W8000 Adapter	4,752	NA
Radeon R9 370	4,722	NA
Radeon R9 270X	4,689	\$299.00
GRID M60-1Q	4,680	NA
GeForce GTX 660 Ti	4,663	\$321.99*
GeForce GTX 1050	4,651	\$124.99
Radeon R7 370	4,643	NA
FirePro W7170M	4,643	NA
Quadro M4000M	4,604	NA
FirePro W8000	4,522	\$1,048.99*

Quadro M3000M	4,479	NA
Radeon HD 7870 XT	4,467	NA
Quadro K4200	4,463	\$311.05
GRID P6-4Q	4,429	NA
Quadro P1000	4,426	\$319.99
GeForce GTX 570	4,417	\$99.99*
Radeon RX 560	4,401	\$99.99
GRID K520	4,384	NA
Radeon HD 7870	4,376	\$299.00
GeForce GTX 480	4,360	\$71.99*
Radeon R9 M390X	4,357	NA
Radeon RX 460	4,331	\$193.50
Barco MXRT 7500	4,319	NA
FirePro W7000	4,310	\$569.99*
Quadro M2000	4,295	\$427.99
GeForce GTX 680MX	4,275	NA
Radeon R9 270 / R7 370	4,261	\$152.52
GeForce GTX 590	4,213	\$184.00*
GeForce GTX 775M	4,181	NA
FirePro S7000	4,166	NA
GeForce GTX 970M	4,149	\$1,899.00*
GeForce GTX 660	4,127	\$349.99*
FirePro W7000 Adapter	4,085	NA
Quadro K5000	4,018	\$399.99
GeForce GTX 780M	4,015	NA
Radeon R9 M290X	4,004	NA
Radeon Pro WX 4100	3,954	\$229.99
Radeon Pro WX4100	3,953	NA
GRID M60-8Q	3,884	NA
Radeon HD 8970M	3,876	NA
Radeon HD 7850	3,842	\$449.59
GeForce GTX 1050 with Max-Q Design	3,834	NA
Radeon HD 7970M	3,809	NA
GRID K2	3,773	\$1,177.00
GeForce GTX 750 Ti	3,745	\$299.01*
GeForce GTX 880M	3,690	NA
GeForce GTX 470	3,602	\$522.01*
Quadro K2200	3,575	\$395.95
Radeon R9 M470X	3,563	NA
Device	3,545	NA
GeForce GTX 650 Ti BOOST	3,536	NA
Radeon Pro 560	3,534	NA
GeForce GTX 560 Ti	3,530	\$138.00*
Quadro 6000	3,521	\$354.99
Radeon HD 6970	3,520	\$94.99*
Quadro M2200	3,510	NA
Tesla C2050	3,487	NA
Quadro P620	3,481	\$174.99
Radeon Pro 460	3,453	NA
Radeon RX 550	3,443	\$74.99
Tesla C2050 / C2070	3,428	NA

Radeon Pro WX 3100	3,403	NA
Tesla C2075	3,364	\$2,269.99*
GeForce GTX 680M	3,350	\$499.99*
GeForce GTX 750	3,311	\$150.99*
Radeon R7 360	3,308	\$146.65*
GRID M60-4Q	3,291	NA
Radeon HD8970M	3,238	NA
Radeon HD 6950	3,214	\$89.99*
Radeon Pro WX 4150	3,209	NA
GeForce GTX 965M	3,191	NA
Tesla C2070	3,179	NA
Radeon R7 260X	3,169	\$220.00
FirePro V7000 Adapter	3,162	NA
Radeon Pro 555	3,141	NA
GeForce GTX 560	3,118	\$353.59*
Quadro K5100M	3,115	\$309.99*
Radeon Pro 455	3,113	NA
Radeon R9 M380	3,101	NA
Quadro P600	3,089	\$169.99
FirePro W5000	3,084	\$434.00*
Radeon HD 7790	3,078	\$134.99*
Radeon HD 8950	3,047	NA
Radeon R9 360	3,039	\$519.00*
Quadro K1200	3,027	\$319.98
Radeon R9 260	3,018	NA
FirePro W5100	3,006	\$279.13*
Quadro M1200	3,005	NA
FirePro M6100	2,976	NA
GeForce GTX 465	2,947	\$263.28*
GRID K260Q	2,941	NA
FirePro W4300	2,894	\$239.99*
Radeon R7 260	2,892	\$89.99*
Quadro K4000	2,882	\$269.00
Radeon Pro WX 4130	2,866	NA
Radeon HD 6990	2,859	\$159.99*
Quadro 5000	2,844	\$140.95
Quadro M2000M	2,837	NA
FirePro 3D V9800	2,812	\$2,499.00*
Quadro M620	2,801	NA
FirePro V9800 Adapter	2,741	NA
Radeon Pro 450	2,723	NA
FirePro V7900	2,718	\$119.99*
GeForce GTX 650 Ti	2,659	\$169.99*
GeForce GTX 460	2,654	\$89.99*
GeForce GTX 770M	2,653	\$177.99*
Radeon HD 5870	2,620	\$99.99*
Quadro K2200M	2,620	NA
Radeon HD 6870	2,611	\$89.99*
Radeon HD 5970	2,595	\$329.99*
Quadro K5000M	2,589	\$391.00*
Quadro K4100M	2,559	\$379.99*

GeForce GTX 460 v2	2,491	\$199.99*
FirePro 3D V8800	2,474	\$424.99*
Radeon R9 M470	2,435	NA
GeForce GTX 870M	2,412	NA
Radeon RX 540	2,407	NA
GeForce GTX 675MX	2,405	NA
GeForce GTX 485M	2,401	NA
GeForce GTX 960A	2,359	NA
Quadro M1000M	2,333	\$210.31
Quadro K620	2,326	\$159.00
GRID K280Q	2,323	NA
GeForce GTX 960M	2,296	NA
Radeon HD 6850	2,288	\$99.99*
Radeon HD 5850	2,280	\$79.99*
GeForce GTX 580M	2,274	NA
Radeon R7 250X	2,269	\$260.70
Radeon RX Vega 11	2,267	NA
GeForce GTX 460 SE	2,257	\$159.99*
Radeon R9 350	2,241	\$55.98
GeForce GT 645	2,235	NA
Quadro K4000M	2,235	NA
Radeon HD 6970M	2,225	NA
Radeon HD 7770	2,219	\$42.99
Firepro W5170M	2,218	NA
GeForce GT 1030	2,208	\$69.99
Radeon Pro WX 2100	2,208	NA
GeForce GTX 560 SE	2,193	\$89.99*
Radeon R7 450	2,190	\$79.99
RadeonT R7 450	2,185	NA
GeForce GTX 745	2,183	NA
GeForce GTX 555	2,158	NA
GeForce MX150	2,158	NA
Radeon TM R9 A360	2,148	NA
GeForce GTX 675M	2,145	NA
GRID K240Q	2,144	NA
FirePro M5100	2,103	NA
Intel Iris Pro P580	2,089	NA
GeForce GTX 670MX	2,075	NA
Radeon R9 M375X	2,067	NA
Radeon R7 M465X	2,057	NA
Radeon HD 5830	2,053	\$159.99*
Radeon HD 6790	2,046	\$64.99*
Quadro K3100M	2,044	\$1,999.00*
Quadro 4000	2,043	\$141.80
GeForce GTX 480M	2,040	NA
Quadro 5000M	2,039	NA
GeForce GTX 570M	2,024	NA
Radeon R9 M360	2,023	NA
MxGPU	2,022	NA
Embedded Radeon E9173	1,996	NA
Radeon R7 + R7 350 Dual	1,982	NA

GeForce MX230	1,973	NA
Radeon R7 + HD 7700 Dual	1,962	NA
Radeon HD 7660D + HD 7700 Dual	1,958	NA
Radeon HD 6900M	1,954	NA
Matrox C680 PCIe x16	1,952	NA
GeForce GTX 470M	1,950	NA
Intel Iris Plus 655	1,942	NA
GeForce GTX 670M	1,940	NA
GeForce GTX 645	1,930	NA
Radeon R9 M370X	1,927	NA
GeForce GTX 550 Ti	1,924	\$287.59*
GeForce MX130	1,918	NA
GeForce GTX 860M	1,911	NA
Quadro M600M	1,888	\$102.99*
GeForce GTX 765M	1,884	NA
GeForce GTX 950M	1,873	NA
Intel Iris Pro 580	1,867	NA
Radeon HD 8570D + HD 7700 Dual	1,835	NA
GeForce GTX 650	1,834	\$144.81*
Quadro 5010M	1,825	\$235.95*
Quadro 4000M	1,823	\$111.99*
Matrox C900 PCIe x16	1,812	NA
FirePro 3D V7800	1,810	\$599.99*
Radeon R7 FX-9830P RADEON	1,804	NA
Radeon R9 255	1,801	\$347.07*
Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
Radeon Vega 8	1,773	NA
Quadro K3000M	1,767	\$155.00*
Radeon RX Vega 8	1,760	NA
FirePro W600	1,735	\$319.99
FirePro M6000 Mobility Pro	1,727	NA
Quadro K2000	1,721	\$179.89
Radeon HD 5770	1,709	\$115.99*
Radeon HD 7750	1,705	\$149.99
Quadro P400	1,703	\$116.98
FirePro W4100 Adapter	1,699	NA
FirePro M4000 Mobility Pro	1,695	NA
Radeon HD 6770	1,682	\$76.99*
Quadro K2000D	1,680	\$475.00
GeForce GTX 950A	1,654	NA
DaveWare Development Mirror Driver 64-bit	1,654	NA
Radeon Vega 6	1,646	NA
Radeon HD 8870M	1,638	NA
Radeon Vega 10 Mobile	1,638	NA
Radeon Vega 8 Mobile	1,637	NA
15DD	1,634	NA
FirePro W5130M	1,629	NA
Radeon 540	1,619	NA
Ryzen 7 2700U with Radeon Vega	1,617	NA
FirePro M4000	1,609	NA

Intel Iris 550	1,607	NA
GeForce GTX 850M	1,602	NA
GeForce GT 755M	1,596	NA
Quadro P500	1,593	NA
FirePro W4100	1,591	\$159.99*
GeForce MX110	1,591	NA
Radeon E8860	1,577	NA
GeForce GT 740	1,572	\$94.99*
Quadro M520	1,571	NA
Intel Iris Plus 650	1,560	NA
GeForce GTS 450	1,557	\$64.99*
GeForce GTX 560M	1,546	NA
Radeon HD 8470D + HD 7500 Dual	1,545	NA
Radeon HD 4890	1,540	\$109.99*
Intel Iris Pro Graphics 6200	1,533	NA
FirePro V5900	1,527	\$319.99*
Radeon HD 7870M	1,507	NA
Ryzen 5 2500U with Radeon Vega	1,503	NA
Radeon R9 M275X / M375	1,501	NA
Radeon HD 7660D + HD 6670 Dual	1,485	NA
FirePro 3D V5800	1,466	\$369.99*
Radeon R5 A10-9630P RADEON R5, 10 COMPUTE CORES 4C	1,463	NA
Quadro 3000M	1,461	\$199.95*
Radeon HD 5750	1,447	\$69.41*
GeForce GTX 660M	1,440	NA
GeForce 945M	1,434	NA
GeForce GTX 760M	1,431	NA
Radeon HD 7730	1,429	\$49.99*
Radeon HD 7560D + 7670 Dual	1,426	NA
Radeon R9 M270X	1,418	NA
Intel Iris Plus 640	1,416	NA
Radeon R7 430	1,411	\$224.00
Radeon R7 M370	1,411	NA
Radeon R7 250	1,406	\$78.34
GeForce GTX 460M	1,393	NA
Radeon HD 4870	1,381	\$59.99*
Radeon R7 PRO A12-8870	1,376	NA
Radeon HD 7850M	1,373	NA
FirePro W4170M	1,371	NA
Radeon 535	1,371	NA
Radeon R7 PRO A10-9700	1,368	NA
FirePro M40003	1,364	NA
Radeon HD 8670D + 6670 Dual	1,361	NA
Radeon R7 PRO A12-9800	1,347	NA
Intel Iris 540	1,347	NA
Radeon HD 7560D + HD 7700 Dual	1,347	NA
GeForce 940MX	1,343	NA
FireStream 9270	1,341	NA
Quadro K2100M	1,330	\$159.95*
Radeon R7 PRO A10-8770	1,320	NA
Radeon HD 6750	1,319	\$49.99*

Quadro 2000	1,316	\$87.99
Radeon HD 8790M	1,314	NA
FirePro M5950	1,314	NA
Radeon HD 4870 X2	1,310	NA
Radeon R7 M465	1,306	NA
FirePro V4900	1,304	\$144.99*
GeForce GT 750M	1,294	NA
GeForce GT 545	1,293	\$55.59*
Radeon R7 + R7 200 Dual	1,289	NA
Quadro 2000D	1,282	\$83.99
GeForce GTX 760A	1,281	NA
Radeon R7 A370	1,281	NA
Firepro W4190M	1,281	NA
GeForce GT 640	1,281	\$59.99*
GeForce GTX 285	1,273	\$179.99*
Radeon R9 M265X	1,272	NA
FirePro 3D V8750	1,272	\$1,230.99*
Radeon HD 8570D + HD 6670 Dual	1,261	NA
Intel HD P630	1,258	NA
Radeon R7 A12-9800 RADEON	1,250	NA
GeForce GTX 275	1,243	\$119.99*
Mobility Radeon HD 5870	1,242	NA
Radeon R9 M375	1,239	NA
Radeon HD 8570D + 6570 Dual	1,239	NA
Radeon R7 A10-9700 RADEON	1,239	NA
Radeon HD 7660D + 6670 Dual	1,238	NA
Radeon HD 8790M / R9 M290X	1,237	NA
Radeon R7 M350	1,236	NA
Radeon 530	1,235	NA
GeForce GT 650M	1,230	NA
Radeon HD 8670D + HD 6670 Dual	1,222	NA
GeForce 930A	1,208	NA
GeForce 930MX	1,205	NA
GeForce GTX 280	1,204	\$522.78*
FirePro 3D V8700	1,198	\$199.99*
Intel UHD	1,197	NA
Radeon HD 7750M	1,191	NA

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* - Last price seen from our affiliates.

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[\[High-End\]](#) - [\[Mid to High-End\]](#) - [\[Low to Mid-End\]](#) - [\[Low-End\]](#)
[\[Common\]](#) - [\[Best Value\]](#) - [\[Direct Compute\]](#) - [\[GPU Mega Page\]](#)

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