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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.

G3D Mark | Price Performance

(Click to select desired chart)

PassMark - G3D Mark High End Videocards - Updated 25th of June 2019

		Price (USD)
TITAN V CEO Edition	16,988	NA
GeForce RTX 2080 Ti	16,843	\$1,099.99
TITAN RTX	16,735	\$2,499.99
GeForce RTX 2080	15,625	\$699.99
TITAN Xp COLLECTORS EDITION	15,071	NA
TITAN V	14,999	\$3,170.99
Quadro RTX 6000	14,982	\$6,300.00*
NVIDIA TITAN Xp	14,499	\$2,142.00
GeForce GTX 1080 Ti	14,265	\$869.99*
GeForce RTX 2070	14,223	\$479.99
Radeon VII	13,887	\$679.99
GeForce RTX 2080 (Mobile)	13,882	NA
NVIDIA TITAN X	13,665	\$1,200.00*
Quadro RTX 4000	13,602	NA
Quadro P6000	13,556	\$3,700.00
GeForce RTX 2080 with Max-Q Design	13,073	NA
GeForce RTX 2060	13,016	\$334.99
Quadro GP100	12,817	NA
Quadro RTX 5000	12,784	NA
Quadro GV100	12,699	NA
GeForce GTX 1080	12,447	\$850.00*
GeForce GTX 1070 Ti	12,335	\$599.99
Quadro RTX 8000	12,276	NA

Radeon Pro Vega 56	11,950	NA
Radeon RX Vega 64	11,864	\$399.99
Radeon RX Vega 56	11,803	\$269.99
GeForce GTX 1660 Ti	11,475	\$269.99
GeForce RTX 2070 with Max-Q Design	11,469	NA
Radeon Pro Vega 64	11,456	NA
GeForce GTX 980 Ti	11,391	\$493.11*
GeForce GTX 1070	11,351	\$469.99
Radeon Vega Frontier Edition	11,077	\$599.99*
Radeon PRO WX 8200	10,926	\$1,013.17
GeForce RTX 2060 (Mobile)	10,904	NA
Quadro P5200 with Max-Q Design	10,705	NA
GeForce GTX TITAN X	10,695	\$1,999.99*
GeForce GTX 1660	10,694	\$219.99
Radeon Pro WX 9100	10,681	NA
Quadro P4200 with Max-Q Design	10,612	NA
Radeon Pro SSG	10,535	NA
Quadro P4000	10,454	\$739.25
GeForce GTX 1660 Ti (Mobile)	10,217	NA
GeForce GTX 1080 with Max-Q Design	10,203	NA
GeForce RTX 2070 (Mobile)	10,203	NA
Quadro P4200	10,166	NA
Quadro P5000	10,118	\$1,659.29
Quadro M6000 24GB	10,034	NA
GeForce GTX 980	9,653	\$510.38
GeForce GTX 1070 with Max-Q Design	9,505	NA
Radeon Pro Duo	9,434	\$449.00*
GeForce GTX 1070 (Mobile)	9,391	NA
Quadro M6000	9,386	\$2,899.00*
Quadro P5200	9,346	NA
Radeon RX 590	9,322	\$206.67
Radeon R9 Fury	9,144	\$399.99*
GeForce GTX 1060	9,095	\$321.58
Quadro P4000 with Max-Q Design	9,083	NA
GeForce GTX 1060 3GB	8,981	\$199.99
GeForce GTX 780 Ti	8,884	\$807.42*
GeForce GTX TITAN Black	8,637	\$1,399.99*
GeForce GTX 970	8,632	\$329.99*
Quadro P3200 with Max-Q Design	8,621	NA
Radeon R9 390X	8,514	NA
Quadro M5000	8,505	\$1,477.00*
Radeon RX 580	8,473	\$177.84
Radeon R9 Fury + Fury X	8,472	\$399.99*
Radeon RX 580 2048SP	8,393	NA
Quadro P3200	8,273	NA
Radeon RX 480	8,131	\$179.00
Radeon R9 390	8,096	NA
Radeon Pro WX 7100	7,970	\$496.99
GeForce GTX 780	7,960	\$740.99*
GeForce GTX Titan	7,948	\$2,054.59*
GeForce GTX 1060 (Mobile)	7,938	NA
Quadro M5500	7,915	NA
GeForce GTX 1060 with Max-Q Design	7,861	NA
Radeon R9 295X2	7,768	\$1,099.99*
Radeon Pro 580	7,753	NA
Tesla M60	7,702	NA
GeForce GTX TITAN Z	7,694	\$3,349.99*
Radeon RX 470	7,657	\$320.00*
FirePro W8100 Graphic Adapter	7,570	NA
GeForce GTX 1660 Ti with Max-Q Design	7,520	NA
GeForce GTX 1650	7,506	\$149.99

Radeon R9 290X / 390X	7,440	\$688.88*
Quadro K6000	7,434	\$959.00*
Quadro P2000	7,277	\$397.96
FirePro W9100	7,189	\$2,749.99*
Radeon R9 290 / 390	7,143	\$499.00
Radeon RX Vega M GH	7,018	NA
GeForce GTX 1650 (Mobile)	6,949	NA
Radeon RX 570	6,872	\$129.99
Quadro M4000	6,665	\$550.00
Radeon Pro 570	6,391	NA
Radeon Pro Vega 20	6,377	NA
Radeon R9 380X	6,212	\$445.00
GeForce GTX 1060 5GB	6,156	NA
Radeon R9 380	6,142	\$264.99*
Quadro K5200	6,093	\$329.95
GeForce GTX 770	6,067	\$702.99*
FirePro W8100	6,066	\$1,112.18
Radeon Pro WX Vega M GL	6,049	NA
GeForce GTX 1050 Ti	6,026	\$169.99
GeForce GTX 1050 Ti (Mobile)	5,954	NA
GeForce GTX 980M	5,948	NA
GRID M60-2Q	5,904	NA
Quadro P3000	5,855	NA
Radeon R9 280X	5,844	NA
GeForce GTX 960	5,821	\$272.07*
GeForce GTX 1050 Ti with Max-Q Design	5,790	NA
Radeon R9 M395X	5,757	NA
Quadro M5000M	5,693	NA
GeForce GTX 680	5,670	\$579.99*
Radeon Pro WX 5100	5,623	\$324.99
FirePro W7100 Adapter	5,554	NA
Radeon R9 285 / 380	5,551	\$310.00
Radeon HD 7990	5,548	\$1,126.99*
FirePro W7100	5,408	\$289.99*
GeForce GTX 690	5,391	\$999.00*
Radeon R9 280	5,378	NA
GeForce GTX 670	5,365	\$474.99*
FirePro W9000	5,304	\$3,443.99*
Radeon HD 7970 / R9 280X	5,248	\$345.00
Quadro P2000 with Max-Q Design	5,239	NA
GeForce GTX 950	5,233	\$169.99
FirePro S10000	5,232	NA
Radeon RX Vega M GL	5,219	NA
Radeon R9 M295X	5,150	NA
GeForce GTX 760 Ti	5,119	\$297.50*
FirePro S9000	5,059	NA
Radeon R9 M395	5,022	NA
GeForce GTX 580	5,019	\$289.88*
Radeon HD 8990	5,000	NA
GeForce GTX 760	4,938	\$249.99*
GeForce GTX 1650 with Max-Q Design	4,850	NA
Quadro M4000M	4,795	NA
Radeon HD 7950 / R9 280	4,764	\$393.98
FirePro W8000 Adapter	4,752	NA
Radeon R9 370	4,722	NA
GeForce GTX 1050	4,715	\$139.99
Radeon R9 270X	4,693	\$299.00
Radeon Pro Vega 16	4,683	NA
GRID M60-1Q	4,680	NA
GeForce GTX 660 Ti	4,660	\$279.99*
Radeon R7 370	4,639	NA

FirePro W8000	4,628	\$1,048.99*
FirePro W7170M	4,579	NA
Quadro M3000M	4,490	NA
Quadro K4200	4,471	\$253.89
Radeon HD 7870 XT	4,470	NA
GeForce GTX 1050 (Mobile)	4,437	NA
GRID P6-4Q	4,429	NA
GeForce GTX 570	4,417	\$99.99*
Quadro P1000	4,384	\$305.83
GRID K520	4,384	NA
Radeon HD 7870	4,379	\$299.00
GeForce GTX 480	4,360	\$71.99*
Radeon R9 M390X	4,357	NA
Radeon RX 560	4,343	\$99.99
FirePro W7000	4,332	\$569.99*
Radeon RX 460	4,331	\$75.00
Barco MXRT 7500	4,319	NA
Quadro M2000	4,276	\$339.00*
GeForce GTX 680MX	4,275	NA
Radeon R9 270 / R7 370	4,261	\$163.71
GeForce GTX 590	4,219	\$184.00*
GeForce GTX 970M	4,209	\$1,899.00*
GeForce GTX 775M	4,167	NA
FirePro S7000	4,166	NA
GeForce GTX 660	4,129	\$284.99*
FirePro W7000 Adapter	4,085	NA
Radeon R9 M290X	4,078	NA
GeForce GTX 780M	4,020	NA
Quadro K5000	4,015	\$299.99
Radeon Pro WX 4100	3,975	\$229.99
Radeon Pro WX4100	3,953	NA
GRID M60-8Q	3,884	NA
Radeon HD 8970M	3,876	NA
Radeon HD 7850	3,845	\$449.59
Radeon HD 7970M	3,799	NA
GRID K2	3,773	\$899.00
GeForce GTX 1050 with Max-Q Design	3,769	NA
GeForce GTX 750 Ti	3,758	\$299.01*
GeForce GTX 880M	3,716	NA
Quadro P620	3,683	\$174.99
Quadro M2200	3,606	NA
GeForce GTX 470	3,601	\$522.01*
Quadro K2200	3,587	\$148.99
Radeon R9 M470X	3,563	NA
RX 560X	3,553	NA
Device	3,545	NA
GeForce GTX 650 Ti BOOST	3,538	NA
GeForce GTX 560 Ti	3,529	\$138.00*
Quadro 6000	3,529	\$354.99
Radeon HD 6970	3,523	\$94.99*
Tesla C2050	3,515	NA
Radeon Pro 560	3,475	NA
Radeon Pro 460	3,453	NA
Radeon RX 550	3,444	\$85.99
Tesla C2050 / C2070	3,428	NA
Radeon HD8970M	3,369	NA
Tesla C2075	3,364	\$2,269.99*
GeForce GTX 680M	3,348	\$499.99*
GeForce GTX 750	3,320	\$150.99*
Radeon Pro WX 3100	3,316	NA
Radeon R7 360	3,313	\$146.65*

Tesla C2070	3,275	NA
GeForce GTX 965M	3,234	NA
Radeon HD 6950	3,218	\$89.99*
Radeon Pro WX 4150	3,209	NA
GRID M60-4Q	3,189	NA
Quadro P600	3,179	\$169.99
Radeon R7 260X	3,172	\$220.00*
FirePro V7000 Adapter	3,162	NA
Radeon Pro 555	3,141	NA
GeForce GTX 560	3,119	\$353.59*
Radeon Pro 455	3,113	NA
Quadro K5100M	3,105	\$295.99*
Radeon R9 M380	3,101	NA
FirePro W5000	3,084	\$434.00*
Radeon HD 7790	3,081	\$134.99*
Radeon HD 8950	3,069	NA
Quadro M1200	3,056	NA
Quadro K1200	3,042	\$429.65
Radeon R9 360	3,032	\$519.00*
Radeon R9 260	3,018	NA
FirePro W5100	3,011	\$279.13*
FirePro M6100	2,968	NA
GeForce GTX 465	2,947	\$263.28*
GRID K260Q	2,941	NA
FirePro W4300	2,930	\$239.99*
Quadro M2000M	2,898	\$279.95*
Radeon R7 260	2,892	\$89.99*
Quadro K4000	2,883	\$182.89
Radeon Pro WX 4130	2,866	NA
Radeon HD 6990	2,859	\$159.99*
Quadro 5000	2,855	\$183.98
FirePro 3D V9800	2,812	\$2,499.00*
Quadro M620	2,798	NA
FirePro V9800 Adapter	2,762	NA
Quadro K2200M	2,756	NA
FirePro V7900	2,739	\$119.99*
Radeon Pro 450	2,723	NA
GeForce GTX 650 Ti	2,661	\$169.99*
GeForce MX250	2,658	NA
GeForce GTX 770M	2,656	\$177.99*
GeForce GTX 460	2,654	\$89.99*
Quadro K5000M	2,627	\$389.25*
Radeon HD 5870	2,623	\$99.99*
Radeon HD 6870	2,614	\$89.99*
Radeon HD 5970	2,605	\$329.99*
Quadro K4100M	2,582	\$379.99*
GeForce GTX 460 v2	2,488	\$199.99*
GeForce GTX 675MX	2,452	NA
GeForce GTX 870M	2,446	NA
FirePro 3D V8800	2,438	\$424.99*
Radeon R9 M470	2,435	NA
GeForce GTX 485M	2,401	NA
Quadro M1000M	2,381	\$212.42*
GRID K280Q	2,359	NA
GeForce GTX 960A	2,359	NA
GeForce GTX 960M	2,347	NA
Quadro K620	2,334	\$154.01
Radeon HD 6850	2,291	\$99.99*
Radeon HD 5850	2,281	\$79.99*
GeForce GTX 580M	2,279	NA
Radeon RX Vega 11	2,279	NA

Radeon HD 6970M	2,270	NA
Radeon R7 250X	2,269	\$260.70
Radeon RX 540	2,260	NA
GeForce GTX 460 SE	2,257	\$159.99*
GeForce GT 645	2,251	NA
GeForce GT 1030	2,239	\$84.99
Quadro K4000M	2,236	NA
Radeon R9 350	2,236	\$59.99
Radeon Pro WX 2100	2,228	NA
Radeon HD 7770	2,222	\$119.99
GeForce MX150	2,198	NA
Radeon R7 450	2,196	\$89.99*
GeForce GTX 560 SE	2,192	\$89.99*
Firepro W5170M	2,191	NA
GeForce GTX 745	2,191	NA
RadeonT R7 450	2,185	NA
GeForce GTX 555	2,154	NA
Radeon TM R9 A360	2,148	NA
GeForce GTX 675M	2,148	NA
Intel Iris Pro P580	2,146	NA
GRID K240Q	2,144	NA
FirePro M5100	2,103	NA
Radeon R9 M375X	2,087	NA
GeForce GTX 670MX	2,076	NA
Quadro K3100M	2,070	\$1,999.00*
Quadro 5000M	2,060	NA
Radeon R7 M465X	2,057	NA
Radeon HD 5830	2,054	\$159.99*
Quadro 4000	2,049	\$59.99
GeForce MX230	2,048	NA
Radeon HD 6790	2,046	\$64.99*
GeForce GTX 480M	2,040	NA
Radeon R9 M360	2,038	NA
GRID M10-1B	2,025	NA
GeForce GTX 570M	2,024	NA
Embedded Radeon E9173	1,996	NA
Radeon R7 + R7 350 Dual	1,982	NA
Matrox C680 PCIe x16	1,978	NA
Intel Iris Plus 655	1,964	NA
Radeon R7 + HD 7700 Dual	1,962	NA
Radeon HD 6900M	1,962	NA
Radeon HD 7660D + HD 7700 Dual	1,958	NA
GeForce GTX 470M	1,950	NA
GeForce GTX 860M	1,949	NA
GeForce GTX 670M	1,948	NA
GeForce MX130	1,947	NA
GeForce GTX 645	1,941	NA
Radeon R9 M370X	1,935	NA
Quadro M600M	1,932	\$102.99*
GeForce GTX 550 Ti	1,924	\$287.59*
GeForce GTX 950M	1,905	NA
GeForce GTX 765M	1,890	NA
Intel Iris Pro 580	1,877	NA
Radeon Vega 10	1,847	NA
GeForce GTX 650	1,835	\$144.81*
Radeon HD 8570D + HD 7700 Dual	1,835	NA
MxGPU	1,826	NA
Matrox C900 PCIe x16	1,812	NA
Quadro 5010M	1,810	\$235.95*
FirePro 3D V7800	1,810	\$599.99*
Radeon R9 255	1,806	\$344.16*

Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Quadro 4000M	1,799	\$105.99*
Radeon RX Vega 8	1,793	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
Radeon R7 FX-9830P RADEON	1,780	NA
Quadro K3000M	1,753	\$155.00*
Radeon Vega 8	1,741	NA
FirePro W600	1,735	\$319.99
FirePro M6000 Mobility Pro	1,727	NA
Quadro K2000	1,722	\$158.99
Radeon HD 5770	1,711	\$115.99*
Radeon HD 7750	1,709	\$152.99
FirePro M4000 Mobility Pro	1,702	NA
Radeon RX Vega 10	1,700	NA
GeForce GTX 950A	1,684	NA
Radeon HD 6770	1,684	\$76.99*
Quadro P500	1,680	NA
Quadro K2000D	1,676	\$199.99
FirePro W4100 Adapter	1,664	NA
DameWare Development Mirror Driver 64-bit	1,654	NA
Radeon HD 8870M	1,638	NA
Radeon Vega 8 Mobile	1,638	NA
GeForce GTX 850M	1,631	NA
FirePro W5130M	1,629	NA
Radeon Vega 10 Mobile	1,627	NA
Ryzen 7 2700U with Radeon Vega	1,617	NA
FirePro M4000	1,617	NA
Radeon 540	1,610	NA
Intel Iris 550	1,606	NA
FirePro W4100	1,601	\$159.99*
Radeon Vega 6	1,600	\$1,799.99
GeForce MX110	1,600	NA
GeForce GT 755M	1,598	NA
Quadro M520	1,578	NA
Radeon E8860	1,577	NA
Intel Iris Plus 650	1,570	NA
GeForce GT 740	1,570	\$94.99*
GeForce GTS 450	1,557	\$64.99*
GeForce GTX 560M	1,545	NA
Radeon HD 8470D + HD 7500 Dual	1,545	NA
Quadro P400	1,544	\$116.99
Intel Iris Pro Graphics 6200	1,543	NA
Radeon HD 4890	1,543	\$109.99*
FirePro V5900	1,531	\$319.99*
15DD	1,528	NA
Radeon R9 M275X / M375	1,524	NA
Radeon HD 7870M	1,507	NA
GeForce 945M	1,504	NA
Ryzen 5 2500U with Radeon Vega	1,503	NA
Radeon HD 7660D + HD 6670 Dual	1,485	NA
FirePro 3D V5800	1,484	\$369.99*
Radeon R5 A10-9630P RADEON R5, 10 COMPUTE CORES 4C	1,463	NA
Quadro 3000M	1,461	\$249.00*
Radeon HD 5750	1,451	\$69.41*
GeForce GTX 660M	1,445	NA
GeForce GTX 760M	1,433	NA
Radeon HD 7730	1,430	\$49.99*
Radeon HD 7560D + 7670 Dual	1,426	NA
Radeon R7 430	1,420	\$182.98
Radeon R9 M270X	1,418	NA
Radeon R7 M370	1,418	NA

Intel Iris Plus 640	<div><div></div></div> 1,411	NA
Radeon R7 250	<div><div></div></div> 1,405	\$72.15
GeForce GTX 460M	<div><div></div></div> 1,393	NA
FirePro W4170M	<div><div></div></div> 1,386	NA
Intel HD P630	<div><div></div></div> 1,382	NA
Radeon HD 4870	<div><div></div></div> 1,382	\$59.99*
Radeon R7 PRO A12-8870	<div><div></div></div> 1,376	NA
Radeon HD 7850M	<div><div></div></div> 1,373	NA
Radeon R7 PRO A10-9700	<div><div></div></div> 1,368	NA
FirePro M40003	<div><div></div></div> 1,364	NA
Radeon HD 8670D + 6670 Dual	<div><div></div></div> 1,361	NA
GeForce 940MX	<div><div></div></div> 1,360	NA
Radeon HD 7560D + HD 7700 Dual	<div><div></div></div> 1,347	NA
Intel Iris 540	<div><div></div></div> 1,344	NA
FireStream 9270	<div><div></div></div> 1,341	NA
Radeon R7 PRO A12-9800	<div><div></div></div> 1,336	NA
Quadro K2100M	<div><div></div></div> 1,334	\$159.95*
Radeon R7 PRO A10-8770	<div><div></div></div> 1,320	NA
Radeon HD 6750	<div><div></div></div> 1,317	\$49.99*
Quadro 2000	<div><div></div></div> 1,317	\$102.98
Intel UHD	<div><div></div></div> 1,315	NA
FirePro M5950	<div><div></div></div> 1,314	NA
Radeon HD 8790M	<div><div></div></div> 1,313	NA
Radeon HD 4870 X2	<div><div></div></div> 1,309	NA
Radeon R7 M465	<div><div></div></div> 1,306	NA
FirePro V4900	<div><div></div></div> 1,302	\$144.99*
Radeon 535	<div><div></div></div> 1,301	NA
Firepro W4190M	<div><div></div></div> 1,298	NA
GeForce GT 750M	<div><div></div></div> 1,296	NA
GeForce GT 545	<div><div></div></div> 1,293	\$55.59*
Radeon R9 M265X	<div><div></div></div> 1,287	NA
Radeon R7 + R7 200 Dual	<div><div></div></div> 1,286	NA
Quadro 2000D	<div><div></div></div> 1,283	\$83.99*
GeForce GTX 760A	<div><div></div></div> 1,281	NA
Radeon R7 A370	<div><div></div></div> 1,281	NA
GeForce GT 640	<div><div></div></div> 1,281	\$59.99*
GeForce GTX 285	<div><div></div></div> 1,273	\$179.99*

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* - Last price seen from our affiliates.