Videocard Benchmarks

Over 1,000,000 Video Cards Benchmarked

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.

PassMark - G3D Mark

High End Videocards

Videocard	Average G3D Mark	Price (USD)
GeForce RTX 2080 Ti	21,175	892.99
GeForce RTX 2080 SUPER	19,352	599.99
GeForce RTX 2080	19,048	639.99
TITAN RTX	18,614	2,489.99
Quadro RTX 8000	18,467	4,741.49*
Quadro RTX 6000	18,351	6,300.00*
GeForce RTX 2070 SUPER	18,130	449.99
TITAN V	17,883	2,149.99*
GeForce GTX 1080 Ti	17,337	800.08*
Radeon VII	17,120	549.99
GeForce RTX 2080 Super with Max-Q Design	17,016	NA
TITAN V CEO Edition	16,988	NA
TITAN Xp COLLECTORS EDITION	16,859	NA
NVIDIA TITAN Xp	16,635	1,398.68*
Radeon RX 5700 XT	16,577	379.99
Quadro RTX 5000	16,389	NA
GeForce RTX 2070	16,298	369.99
Quadro RTX 4000	16,205	899.00*
Radeon RX 5700 XT 50th Anniversary	16,134	NA
GeForce RTX 2060 SUPER	16,119	359.99
GeForce RTX 2080 (Mobile)	15,583	NA
Quadro P6000	15,557	2,749.99*
Radeon Pro W5700	15,261	799.99
Radeon RX Vega 64	14,992	389.99
GeForce RTX 2060	14,910	299.99
GeForce GTX 1080	14,534	618.90
Quadro RTX 5000 (Mobile)	14,463	NA
GeForce RTX 2080 with Max-Q Design	14,276	2,099.99*
Radeon Pro WX 8200	14,183	969.99
Radeon RX 5700	14,080	329.99
GeForce GTX 1070 Ti	13,827	549.99
GeForce GTX 980 Ti	13,666	309.20*
NVIDIA TITAN X	13,660	608.10*
GeForce RTX 2070 (Mobile)	13,299	NA
GeForce GTX 1070	13,286	245.91*
Radeon RX Vega 56	13,140	259.99

Video Card

Radeon RX 5600 XT	12,917	269.99
GeForce GTX 1660 Ti	12,785	279.99
GeForce GTX 1660 SUPER	12,707	229.99
Quadro GP100	12,663	NA
GeForce GTX TITAN X	12,606	599.99*
Quadro M6000 24GB	12,244	NA
GeForce RTX 2070 with Max-Q Design	12,010	NA
Quadro P4200	11,969	NA
Quadro P4200 with Max-Q Design	11,940	NA
Radeon Pro Vega II	11,919	NA
Radeon Pro Vega 56	11,916	NA
Quadro P5000	11,908	1,899.99
Radeon Pro Vega 48	11,872	NA
Quadro RTX 5000 with Max-Q Design	11,722	NA
GeForce RTX 2060 (Mobile)	11,474	NA
Radeon Pro Vega 64	11,456	NA
Quadro P4000	11,310	858.00*
GeForce GTX 1660	11,242	199.99
Quadro RTX 3000	11,189	NA
Quadro RTX 4000 with Max-Q Design	11,186	NA
Quadro M6000	11,174	1,054.03*
Radeon Vega Frontier Edition	11,138	890.00*
Radeon Pro WX 9100	10,895	NA
GeForce GTX 980	10,869	223.10*
GeForce GTX 1070 (Mobile)	10,699	NA
GeForce GTX 1070 with Max-Q Design	10,625	NA
Radeon Pro SSG	10,498	NA
Radeon Instinct MI25 MxGPU	10,466	NA
GeForce GTX 1080 with Max-Q Design	10,360	NA
GeForce GTX 1060	10,179	338.78
GeForce GTX 1660 Ti (Mobile)	10,145	NA
GeForce GTX 1650 SUPER	10,070	159.99
Radeon R9 Fury + Fury X	9,988	374.10*
GeForce RTX 2060 with Max-Q Design	9,978	NA
Quadro P5200 with Max-Q Design	9,796	NA
Radeon R9 390X	9,627	NA
GeForce GTX 970	9,587	197.44*
Radeon R9 Fury	9,540	443.10*
GeForce GTX 1060 3GB	9,517	235.59
Radeon RX 590	9,512	239.99*
Radeon Pro Duo	9,436	449.00*
Quadro RTX 3000 with Max-Q Design	9,402	NA
GeForce GTX 780 Ti	9,362	225.10*
Quadro P2200	9,360	374.36*
Radeon Pro W5500	9,347	399.99
Quadro P5200	9,186	NA
GeForce GTX 1660 Ti with Max-Q Design	9,103	NA
Quadro P4000 with Max-Q Design	9,083	NA
GeForce GTX Titan	9,064	310.00*
Quadro P3200 with Max-Q Design	9,012	NA
Quadro M5000	8,979	648.99*
Radeon RX 5500 XT	8,934	179.99
Radeon R9 390	8,740	NA
Radeon RX 580	8,720	169.99
Radeon RX 480	8,485	198.25*

Video Card

GeForce GTX TITAN Black	8,375	433.10*
Quadro K6000	8,338	767.64*
GeForce GTX 1650 Ti	8,211	NA
Radeon R9 290 / 390	8,185	179.32*
GeForce GTX 1060 (Mobile)	8,143	NA
GeForce GTX 1060 with Max-Q Design	8,043	NA
Radeon R9 290X / 390X	8,012	220.10*
Radeon RX 470	7,929	99.99*
Quadro M5500	7,915	NA
GeForce GTX 780	7,900	129.99*
Radeon RX 580X	7,798	NA
Radeon Pro WX 7100	7,772	499.99
GeForce GTX 1650	7,754	134.99
Radeon Pro 580	7,753	NA
FirePro W9100	7,750	3,593.10*
GeForce GTX TITAN Z	7,647	919.10*
Tesla M6	7,621	NA
Radeon Pro 580X	7,540	NA
GeForce GTX 980M	7,532	289.99*
Tesla P100-PCIE-16GB	7,225	NA
GeForce GTX 1650 (Mobile)	7,042	NA
Radeon R9 295X2	7,034	499.10*
Radeon RX 570	6,967	114.99
Quadro P2000	6,952	428.99
Tesla M60	6,923	1,395.00*
Radeon Pro 5500M	6,820	NA
Radeon RX Vega M GH	6,735	NA
GeForce GTX 970XM FORCE	6,707	NA
Radeon HD 8990	6,583	NA
Quadro P3000	6,522	NA
GeForce GTX 1060 5GB	6,407	NA
GeForce GTX 1050 Ti	6,383	131.95
Quadro T2000	6,375	NA
Quadro T1000	6,374	NA
Radeon Pro 570	6,337	NA
Radeon R9 380X	6,297	445.00*
FirePro S7150	6,276	2,940.21*
Radeon RX 5500M	6,273	NA
Radeon R9 280X	6,247	NA
Quadro M4000	6,242	279.00*
Radeon RX 5500	6,202	NA
FirePro W8100	6,165	1,112.18*
Quadro M5000M	6,134	499.95*
Radeon R9 380	6,118	89.99*
Radeon Pro WX Vega M GL	6,049	NA
Radeon Pro 5300M	6,007	NA
GRID P100-16Q	5,945	NA
GeForce GTX 960	5,943	113.27*
GeForce GTX 1050 Ti (Mobile)	5,862	NA
Radeon Pro Vega 20	5,838	NA
GeForce GTX 770	5,836	109.95*
GeForce GTX 690	5,829	264.10*
GeForce GTX 1050 Ti with Max-Q Design	5,822	NA
Quadro K5200	5,757	979.21
GeForce GTX 1050	5,755	158.49
GeForce GTX 1650 with Max-Q Design	5,712	NA
Radeon HD 7990	5,566	990.44*

Video Card

Radeon R9 285 / 380	5,550	449.99*
GRID M60-8A	5.523	NA
GeForce GTX 680	5,498	179.99*
Radeon Pro WX 5100	5,492	355.99
GeForce GTX 970M	5,451	209.99*
GeForce GTX 760 Ti OEM	5,427	NA
FirePro W9000	5,305	3,443.99*
GeForce GTX 670	5,294	149.00*
GRID M60-2Q	5,291	NA
Quadro P2000 with Max-Q Design	5,290	NA
Radeon R9 280	5,283	NA
Radeon HD 7970 / R9 280X	5,248	125.99*
Quadro P3200	5,243	NA
GeForce GTX 950	5,236	86.00*
FirePro S10000	5,235	NA
RadeonT RX 5500M	5,201	NA
Q12U-1	5,164	NA
Radeon R9 M295X	5,150	NA
GeForce GTX 760 Ti	5,119	297.50*
Quadro M3000M	5,066	159.95*
FirePro S9000	5,059	NA
Quadro M4000M	5,009	NA
Radeon R9 M395	4,954	NA
EIZO Quadro MED-XN51LP	4,947	NA
Barco MXRT 7600	4,944	NA
Radeon Sky 500	4,889	NA
Radeon R9 M485X	4,842	NA
Radeon HD 7950 / R9 280	4,765	109.00*
Radeon HD 7870	4,739	147.00*
GRID P40-24Q	4,728	NA
Radeon R9 370	4,722	NA
Radeon R9 270X	4,715	149.99*
Radeon Pro Vega 16	4,683	NA
GeForce GTX 760	4,676	160.32*
FirePro W8000	4,674	1,048.99*
GeForce GTX 580	4,587	145.32*
B8DKMDAP	4,557	NA
Radeon Pro 465	4,538	NA
GeForce GTX 660 Ti	4,501	486.68*
Radeon HD 7870 XT	4,470	NA
GRID M60-1B	4,457	NA
Citrix Indirect Display Adapter	4,447	NA
GeForce GTX 1050 (Mobile)	4,431	NA
GRID P6-4Q	4,429	NA
FirePro W7000	4,378	146.02*
Radeon R9 M390X	4,357	NA
Radeon R9 M395X	4,330	NA
Barco MXRT 7500	4,319	NA
GRID P40-2Q	4,288	NA
GRID T4-8Q	4,284	NA
GeForce GTX 680MX	4,271	NA
Radeon R9 270 / R7 370	4,260	164.47*
GeForce GTX 775M	4,222	NA
Radeon R9 270	4,213	NA
Radeon R7 370	4,197	NA
FirePro S7000	4,166	NA
GRID V100D-8Q	4,156	NA
Quadro M2000	4,113	298.99*

Video Card

Quadro K4200	4,108	239.99*
Quadro 7000	4.107	NA
GRID M60-1Q	4,088	NA
Quadro P1000	4,074	317.99
Radeon HD 7970M	4,036	NA
Radeon HD 7800-serie	4,029	NA
GRID P6-2Q	4,001	NA
GeForce GTX 660	3,997	124.97*
GeForce GTX 590	3,996	184.00*
GeForce GTX 965M	3,985	NA
Quadro K5000	3,961	384.98*
Radeon Pro WX 4100	3,910	259.99
GeForce GTX 780M	3,900	189.99*
Quadro M2200	3,896	249.99*
Radeon RX 460	3,884	274.10*
GRID M60-8Q	3,884	NA
Radeon HD 8970M	3,876	139.99*
GRID P100-8Q	3,841	NA
GeForce GTX 750 Ti	3,829	155.32*
P106-100	3,802	NA
Radeon HD 7850	3,773	75.00*
GeForce GTX 570	3,757	298.68*
GeForce GTX 1050 with Max-Q Design	3,722	NA
Radeon Pro 560X	3,678	NA
Quadro P620	3,668	174.99
Radeon RX 560	3,640	99.99
GRID K2	3,604	289.99*
Radeon RX Vega M GL	3,596	NA
GeForce GTX 480	3,596	579.00*
Quadro K2200	3,594	123.18*
GeForce GTX 680M KY_Bullet Edition	3,569	NA
GRID M6-8Q	3,568	NA
Radeon R9 M470X	3,563	NA
GeForce GTX 960M	3,529	1,169.00*
Radeon RX 560X	3,520	NA
Tesla C2050	3,515	269.99*
Quadro M2000M	3,514	279.95*
Quadro M1200	3,501	NA
FirePro M6100 FireGL V	3,487	NA
Radeon Pro 560	3,475	NA
FirePro W7170M	3,461	NA
Radeon Pro 460	3,453	NA
Quadro K2200M	3,448	124.95*
Tesla C2050 / C2070	3,428	NA
Radeon HD8970M	3,369	NA
GeForce GTX 860M	3,369	NA
Radeon E8870PCIe	3,368	NA
Tesla C2075	3,364	340.50*
GRID P40-2B	3,354	NA
GRID M10-1Q	3,351	NA
GRID K520	3,344	749.95*
GeForce GTX 750	3,311	129.99*
GeForce GTX 680M	3,304	135.99*
Quadro P600	3,296	241.04*
Tesla C2070	3,275	NA
Tesla M10	3,248	3,202.21*
GeForce 770M	3,246	176.99*

Video Card

GRID M10-4Q	3,224	NA
Radeon HD 7790	3.210	180.32*
GeForce GTX 470	3,176	522.01*
FirePro V7000	3,162	NA
Radeon Pro 555	3,141	NA
GeForce GTX 650 Ti BOOST	3,129	NA
Quadro 6000	3,128	258.99*
Radeon Pro 455	3,113	449.00*
Radeon HD 6970	3,102	59.99*
GeForce GTX 870M	3,100	NA
FirePro W5000	3,090	169.89*
GeForce MX350	3,088	NA
Radeon R9 M380	3,051	NA
Radeon R9 360	3,032	519.00*
GeForce GTX 560 Ti	3,018	81.60*
Radeon R9 260	3,018	NA
Radeon HD 8950	2,990	NA
Radeon R7 260X	2,988	132.28*
Radeon Pro WX 4130	2,984	NA
GeForce GTX 465	2,946	263.28*
GRID K260Q	2,941	NA
Quadro K5100M	2,934	285.99*
Radeon HD 6990	2,933	159.99*
Radeon R7 360	2,920	125.00*
FirePro W4300	2,909	239.99*
Quadro K1200	2,905	190.89*
Radeon R7 260	2,892	89.99*
Quadro M1000M	2,869	85.99*
Radeon Pro WX 3100	2,864	NA
GeForce GTX 560	2,857	95.95*
Radeon Pro V340 MxGPU	2,853	NA
FirePro 3D V9800	2,812	2,499.00*
FirePro V7900	2,749	144.04*
Radeon HD 6950	2,746	148.32*
FirePro V9800	2,727	NA
GeForce GTX 880M	2,726	NA
Radeon Pro 450	2,723	NA
FirePro W5100	2,717	279.13*
Quadro K4000	2,706	175.99*
Barco MXRT 5500	2,702	NA
GeForce GTX 950M	2,691	567.00*
Radeon R9 M290X	2,690	NA
GeForce GTX 850M	2,675	NA
GeForce GTX 675MX	2,675	NA
GeForce MX330	2,674	NA
Quadro M620	2,667	NA
GRID M10-2Q	2,654	NA
FirePro R5000	2,647	109.99*
MONSTER GeForce GTX 675M	2,637	NA
Quadro K4100M	2,626	198.02*
GRID M10-8Q	2,606	NA
GeForce GT 1030	2,606	64.99
Quadro K5000M	2,572	389.25*
GeForce MX250	2,543	NA
GeForce GTX 650 Ti	2,535	184.32*
Radeon HD 6850 X2	2,534	NA
GeForce GTX 770M	2,534	138.00*
FireStream 9370	2,528	NA

Video Card

N18E-Q1	2,525	NA
Quadro 5000	2,500	2,204.59
Radeon Pro WX 3200	2,455	189.99
FirePro 3D V8800	2,438	424.99*
Radeon R9 M470	2,435	NA
GRID M10-2B	2,417	NA
GeForce GTX 960A	2,411	NA
Radeon RX Vega 11 PRD	2,402	NA
GeForce GTX 485M	2,401	NA
Radeon HD 5970	2,395	329.99*
GeForce MX150	2,377	NA
FirePro M6100	2,371	NA
Radeon RX 550	2,363	84.99
GRID K280Q	2,363	NA
Radeon HD 5870	2,327	289.00*
GRID M10-1B	2,310	NA
Quadro K620	2,288	138.83*
GeForce GTX 580M	2,279	248.68*
Radeon HD 6970M	2,270	215.99*
Radeon R7 250X	2,269	260.70*
Radeon HD 6870	2,264	150.00*
GeForce GTX 950A	2,258	NA
GeForce GT 645	2,251	NA
Quadro K3100M	2,249	399.95*
GRID P100-1B	2,223	NA
GeForce GTX 745	2,212	124.04*
GeForce GTX 560 SE	2,201	89.99*
RadeonT R7 450	2,185	NA
GeForce GTX 460	2,181	169.71*
Firepro W5170M	2,176	NA
Intel Iris Pro 580	2,173	NA
GeForce GTX 555	2,162	NA
Radeon TM R9 A360	2,148	NA
Radeon Pro WX 7130	2,146	NA
GRID K240Q	2,144	NA
GeForce GTX 675M	2,144	NA
GeForce GTX 460 SE	2,134	159.99*
GeForce 945M	2,130	NA
Radeon RX Vega 11	2,108	NA
FirePro M5100	2,103	NA
Radeon R9 350	2,101	103.85*
FirePro V7800	2,091	NA
GeForce GTX 645	2,088	NA
Radeon HD 5850	2,082	79.99*
GRID M6-1Q	2,069	NA
Intel Iris Pro P580	2,065	NA
Quadro 5000M	2,060	NA
Radeon R7 M465X	2,057	NA
GeForce GTX 480M	2,051	NA
Radeon HD 7770	2,038	145.32*
GeForce GTX 570M	2,024	NA
Radeon R9 M360	2,007	NA
GeForce MX230	2,003	NA
Embedded Radeon E9173	1,996	NA
Radeon R7 + R7 350 Dual	1,982	NA
Radeon Pro WX 4150	1,980	NA
Radeon R7 + HD 7700 Dual	1,962	NA
Radeon HD 6850	1,961	165.32*

Video Card

Radeon HD 7660D + HD 7700 Dual	1,958	NA
Matrox C680 PCIe x16	1,956	NA
Quadro K4000M	1,951	599.99*
GeForce GTX 470M	1,950	NA
GeForce GTX 765M	1,950	NA
Radeon RX 540	1,933	NA
Quadro M600M	1,932	102.99*
GeForce MX130	1,927	NA
Radeon RX 570X	1,923	NA
Radeon HD 7560D + 7700 Dual	1,919	NA
Intel Iris Plus 645	1,911	NA
Quadro P520	1,907	1,499.00*
Radeon HD 7700-serie	1,899	NA
Radeon HD 8670D + HD 7700 Dual	1,892	NA
GeForce GT 755M	1,875	NA
Intel Iris Plus	1,875	NA
FirePro 3D V7800	1,867	599.99*
Radeon R7 450	1,861	52.49*
GeForce 945A	1,852	NA
FirePro M5100 FireGL V	1,839	NA
GRID M60-0B	1,838	NA
Radeon HD 8570D + HD 7700 Dual	1,835	NA
Quadro 5010M	1,833	235.95*
MxGPU	1,826	NA
FirePro M6000	1,820	NA
Intel Iris Plus 655	1,820	NA
Radeon RX Vega11	1,820	NA
Radeon Pro W5500M	1,813	NA
Matrox C900 PCIe x16	1,812	NA
Radeon HD 6790	1,810	64.99*
RadeonT RX 560X	1,810	NA
Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Radeon HD 6900M	1,799	NA
Intel Iris 650	1,795	NA
Radeon R7 FX-9830P RADEON	1,790	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
Radeon Vega 9	1,767	NA
Radeon HD 5830	1,767	159.99*
Radeon RX Vega 8	1,745	NA
FirePro W600	1,744	400.99*
FirePro M6000 Mobility Pro	1,734	NA
Intel HD P630	1,727	NA
Quadro P500	1,724	NA
FirePro M4000	1,714	NA
Radeon HD 7750	1,712	145.99
GeForce GTX 650	1,706	89.35*
GeForce GTX 670MX	1,702	NA
Radeon R9 M375X	1,693	NA
Intel Iris Plus 650	1,692	NA
FirePro M4000 Mobility Pro	1,688	NA
FirePro W5130M	1,674	NA
Quadro P400	1,671	117.99
Quadro K2000D	1,657	140.00*
Quadro K3000M	1,656	155.00*
Radeon HD HD7850M	1,652	NA
Radeon HD 8870M	1,638	NA
Quadro M520	1,632	NA
GeForce GTX 660M	1,625	78.99*

Video Card

Ryzen 7 2700U with Radeon Vega	1,617	NA
Radeon 550X	1,614	NA
GeForce GTX 550 Ti	1,599	131.28*
Radeon Pro WX 2100	1,578	NA
Radeon E8860	1,577	NA
Radeon Vega 10	1,575	NA
Radeon Vega 11	1,560	NA
Radeon RX Vega 10	1,557	NA
Radeon HD 7560D + HD 6670 Dual	1,555	NA
Radeon HD 8470D + HD 7500 Dual	1,545	NA
Intel Iris Pro Graphics 6200	1,545	NA
Quadro 4000	1,541	889.99
FirePro V8700	1,539	NA
Quadro K2000	1,527	120.00*
Radeon R9 M275X / M375	1,525	NA
Radeon HD 4890	1,524	109.99*
Radeon 540	1,521	NA
Radeon R9 M370X	1,518	NA
Radeon Vega 8	1,517	126.86*
GeForce 940MX	1,515	NA
Radeon HD 7870M	1,507	NA
Ryzen 5 2500U with Radeon Vega	1,503	NA
Radeon Vega 10 Mobile	1,502	NA
GeForce GT 740	1,498	154.32*
Radeon HD 6670 + 7660D Dual	1,492	NA
GeForce MX110	1,492	NA
Radeon HD 7660D + HD 6670 Dual	1,485	NA
Radeon R9 M365X	1,482	NA
Radeon HD 7730	1,469	49.99*
Radeon RX 550X	1,454	NA
Radeon R7 M380	1,447	NA
Radeon R9 M270X	1,445	NA
Radeon Vega 8 Mobile	1,439	NA
Radeon HD 8470D + HD 6670 Dual	1,436	NA
Radeon 540X	1,433	NA
FirePro V5800	1,433	54.99*
GeForce GTX 275	1,427	119.99*
Radeon HD 7560D + 7670 Dual	1,426	NA
Intel Iris Plus 640	1,425	NA
Radeon R7 M370	1,418	NA
GeForce GTX 285	1,413	179.99*
Radeon Pro WX 4170	1,409	NA
FirePro W4100	1,397	149.86*
Intel UHD 630	1,387	NA
GeForce GTX 760M	1,383	NA
Intel Iris 550	1,382	NA
Quadro K2100M	1,381	550.00*
Radeon HD 7560D + HD 7670 Dual	1,380	NA
Radeon R7 PRO A12-8870	1,376	NA
Quadro 4000M	1,375	91.01*
GeForce GTX 560M	1,373	NA
Radeon HD 7850M	1,373	NA
GeForce GT 750M	1,369	NA
Radeon R5 A10-9630P 4C+6G	1,366	NA
FirePro M40003	1,364	NA
Radeon HD 8670D + 6670 Dual	1,361	NA
Radeon HD 5770	1,354	369.22*
Radeon HD 7560D + HD 7700 Dual	1,347	NA

FireStream 9270	1,341	NA
Radeon R7 PRO A12-9800	1.340	NA

Video Card

FirePro V5900	1,325	319.99*
Radeon HD 8670D + HD 7600 Dual	1,318	NA
FirePro M5950	1,314	NA
Radeon R7 PRO A8-8670E	1,310	NA
FirePro V4900	1,310	144.99*
Radeon HD 4870 X2	1,309	NA

** - Last price seen from our affiliates.*

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