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	21,658	1,159.99
Quadro RTX 8000	20,543	4,741.49*
GeForce RTX 2080 SUPER	19,225	709.99
GeForce RTX 2080	18,854	629.99
TITAN V	18,793	2,149.99*
Quadro RTX 6000	18,351	6,300.00*
TITAN RTX	18,213	2,499.99
GeForce RTX 2070 SUPER	18,095	509.99
NVIDIA TITAN Xp	17,832	1,398.68*
TITAN Xp COLLECTORS EDITION	17,486	NA
GeForce GTX 1080 Ti	17,385	800.08*
Quadro RTX 5000	17,288	NA
Radeon VII	17,076	599.99*
TITAN V CEO Edition	16,988	NA
Radeon RX 5700 XT	16,730	379.99
Radeon RX 5700 XT 50th Anniversary	16,432	NA
GeForce RTX 2060 SUPER	16,319	399.99
GeForce RTX 2070	16,245	419.99
Quadro RTX 4000	15,755	899.00*
Quadro P6000	15,557	2,749.99*
GeForce RTX 2080 Super with Max-Q Design	15,418	NA
GeForce RTX 2080 (Mobile)	15,129	NA
GeForce RTX 2070 Super with Max-Q Design	15,112	NA
GeForce RTX 2060	14,732	329.99
GeForce GTX 1080	14,691	649.99*
Radeon RX Vega 64	14,633	389.99*
Radeon Pro W5700	14,334	799.99
GeForce RTX 2080 with Max-Q Design	14,326	2,099.99*
Radeon RX 5700	14,201	309.99
Radeon Vega Frontier Edition	14,026	890.00*
GeForce GTX 1070 Ti	13,915	549.99
Radeon Pro WX 8200	13,903	969.99
Quadro RTX 5000 (Mobile)	13,705	NA
GeForce GTX 980 Ti	13,701	309.20*
NVIDIA TITAN X	13,660	608.10*
GeForce GTX 1070	13,286	245.91*

Video Card

Radeon RX Vega 56	13,281	259.99
Radeon RX 5600 XT	13,009	269.99
GeForce GTX 1660 Ti	12,803	279.99
Quadro GV100	12,721	8,999.00*
GeForce GTX 1660 SUPER	12,705	229.99
Quadro GP100	12,663	NA
GeForce GTX TITAN X	12,645	599.99*
GeForce RTX 2070 with Max-Q Design	12,444	NA
Quadro M6000 24GB	12,244	NA
Radeon Pro Vega 56	12,209	NA
Quadro M6000	12,164	1,054.03*
Quadro P5000	12,040	1,714.37
Quadro P4200	12,019	NA
Quadro P4200 with Max-Q Design	11,940	NA
Radeon Pro Vega II	11,919	NA
Radeon Pro WX 9100	11,771	NA
Quadro RTX 5000 with Max-Q Design	11,722	NA
Radeon Pro Vega 48	11,504	NA
GeForce RTX 2060 (Mobile)	11,458	NA
Radeon Pro Vega 64	11,456	NA
Quadro RTX 3000	11,376	NA
GeForce GTX 1660	11,371	209.99
Quadro P4000	11,370	789.99
Quadro RTX 4000 with Max-Q Design	11,186	NA
GeForce GTX 1080 with Max-Q Design	11,058	NA
GeForce GTX 980	10,987	223.10*
GeForce GTX 1070 with Max-Q Design	10,773	NA
GeForce GTX 1070 (Mobile)	10,589	NA
Radeon Pro SSG	10,498	NA
Radeon Instinct MI25 MxGPU	10,466	NA
GeForce GTX 1060	10,239	302.24*
GeForce GTX 1660 Ti (Mobile)	10,215	NA
Radeon R9 Fury	10,023	443.10*
GeForce GTX 1650 SUPER	9,890	159.99
Quadro P5200 with Max-Q Design	9,796	NA
Radeon R9 Fury + Fury X	9,681	374.10*
Radeon R9 390X	9,681	NA
GeForce RTX 2060 with Max-Q Design	9,620	NA
GeForce GTX 1060 3GB	9,599	235.99
GeForce GTX 970	9,567	197.44*
Quadro P2200	9,530	402.54
Radeon Pro Duo	9,436	449.00*
Radeon Pro W5500	9,431	399.99
Radeon RX 590	9,430	149.99*
Quadro RTX 3000 with Max-Q Design	9,402	NA
GeForce GTX 780 Ti	9,328	225.10*
Quadro P5200	9,186	NA
Quadro P4000 with Max-Q Design	9,083	NA
Quadro M5000	9,079	648.99*
Quadro P3200 with Max-Q Design	9,012	NA
Radeon RX 5500 XT	8,993	179.99
GeForce GTX TITAN Black	8,890	433.10*
GeForce GTX 1660 Ti with Max-Q Design	8,814	NA
Radeon R9 390	8,762	NA
Radeon RX 580	8,724	164.99

Video Card

GeForce GTX Titan	8,674	310.00*
Quadro K6000	8.637	724.28*
Radeon R9 295X2	8,239	499.10*
GeForce GTX 1060 (Mobile)	8,153	NA
Radeon R9 290X / 390X	8,118	220.10*
Radeon R9 290 / 390	8,093	179.32*
Radeon RX 580 2048SP	8,007	NA
GeForce GTX 1060 with Max-Q Design	7,945	NA
Quadro M5500	7,915	NA
Radeon RX 470	7,907	99.99*
GeForce GTX 1650	7,895	149.99
Radeon RX 5500	7,878	NA
GeForce GTX 780	7,869	129.99*
Radeon RX 580X	7,798	NA
GeForce GTX 1650 Ti	7,796	NA
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	7,513	289.99*
Radeon Pro WX 7100	7,348	499.99
Quadro P2000	7,232	420.39
Tesla P100-PCIE-16GB	7,225	NA
GeForce GTX 1650 (Mobile)	7,002	NA
FirePro W8100	6,986	1,112.18*
Radeon RX 570	6,967	124.99
Radeon Pro 5500M	6,946	NA
Tesla M60	6,923	1,395.00*
Quadro T2000	6,742	NA
GeForce GTX 970XM FORCE	6,707	NA
Radeon RX Vega M GH	6,632	NA
Radeon HD 8990	6,583	NA
Quadro P3200	6,582	NA
Quadro P3000	6,522	NA
GeForce GTX 1050 Ti	6,431	144.03
Quadro T1000	6,354	NA
Radeon R9 380X	6,354	445.00*
Radeon Pro 570	6,337	NA
Radeon R9 280X	6,330	NA
Quadro M4000	6,320	279.00*
FirePro S7150	6,276	2,940.21*
Quadro M4000M	6,253	NA
Quadro M5000M	6,134	499.95*
Radeon R9 380	6,085	89.99*
Radeon Pro WX Vega M GL	6,049	NA
GeForce GTX 690	5,998	264.10*
GRID P100-16Q	5,945	NA
GeForce GTX 960	5,927	113.27*
GeForce GTX 1050 Ti (Mobile)	5,914	NA
GeForce GTX 770	5,908	109.95*
GeForce GTX 1650 with Max-Q Design	5,869	NA
Radeon Pro Vega 20	5,838	NA
P106-100	5,777	NA
GeForce GTX 1050	5,701	159.99
Quadro K5200	5,688	790.96
GeForce GTX 1050 Ti with Max-Q Design	5,681	NA

Video Card

Radeon HD 7990	5,566	990.44*
Radeon R9 285 / 380	5,550	449.99*
GeForce GTX 970M	5,528	209.99*
GRID M60-8A	5,523	NA
GeForce GTX 680	5,514	179.99*
GeForce GTX 760 Ti OEM	5,427	NA
Radeon R9 280	5,356	NA
GeForce GTX 1650 Ti with Max-Q Design	5,336	NA
Radeon Pro WX 5100	5,328	334.99
FirePro W9000	5,305	3,443.99*
GRID M60-2Q	5,291	NA
GeForce GTX 950	5,267	86.00*
Radeon HD 7970 / R9 280X	5,248	125.99*
FirePro S10000	5,235	NA
GeForce GTX 670	5,232	149.00*
Quadro M3000M	5,202	159.95*
Q12U-1	5,164	NA
Radeon R9 M295X	5,150	NA
GeForce GTX 760 Ti	5,119	297.50*
FirePro S9000	5,059	NA
Quadro P2000 with Max-Q Design	4,991	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
FirePro W7100	4,770	289.99*
Radeon HD 7950 / R9 280	4,765	109.00*
GRID P40-24Q	4,728	NA
Radeon R9 370	4,722	NA
Radeon R9 270X	4,714	149.99*
Radeon RX 5500M	4,687	NA
Radeon Pro Vega 16	4,683	NA
Radeon HD 7870	4,674	147.00*
GeForce GTX 760	4,660	160.32*
B8DKMDAP	4,557	NA
Radeon Pro 465	4,538	NA
GeForce GTX 580	4,503	145.32*
Radeon HD 7870 XT	4,470	NA
GeForce GTX 1050 (Mobile)	4,464	NA
GRID M60-1B	4,457	NA
Citrix Indirect Display Adapter	4,447	NA
GRID P6-4Q	4,429	NA
FirePro W7000	4,423	146.02*
GeForce GTX 660 Ti	4,363	486.68*
Radeon R9 M390X	4,357	NA
Radeon R9 M395X	4,330	NA
Barco MXRT 7500	4,319	NA
Radeon R7 370	4,317	NA
GRID P40-2Q	4,288	NA
GeForce GTX 680MX	4,271	NA
Radeon R9 270 / R7 370	4,260	164.47*
GRID M60-1Q	4,251	NA
GeForce GTX 775M	4,222	NA
Quadro P1000	4,213	300.99
Radeon R9 270	4,213	NA
Quadro K4200	4,213	239.99*
FirePro S7000	4,166	NA

Video Card

GRID V100D-8Q	4,156	NA
GeForce GTX 1060 5GB	4.141	NA
Quadro 7000	4,107	NA
FirePro W7000 Adapter	4,106	NA
GeForce GTX 780M	4,073	189.99*
Radeon HD 7800-serie	4,029	NA
Quadro M2000	4,003	298.99*
GRID P6-2Q	4,001	NA
Quadro K5000	3,993	384.98*
Quadro M2200	3,965	249.99*
GeForce GTX 660	3,954	124.97*
GeForce GTX 570	3,905	298.68*
GeForce GTX 965M	3,889	NA
GRID M60-8Q	3,884	NA
Radeon HD 8970M	3,876	139.99*
GeForce GTX 750 Ti	3,864	155.32*
GRID P100-8Q	3,841	NA
GRID M60-4Q	3,831	NA
Quadro K2200M	3,791	124.95*
Radeon Pro WX 4100	3,786	249.99
Radeon HD 7850	3,768	75.00*
GeForce GTX 1050 with Max-Q Design	3,766	NA
GeForce GTX 480	3,736	579.00*
Quadro P620	3,717	150.93
Radeon Pro 560X	3,678	NA
Quadro M1200	3,659	NA
Radeon RX 560	3,632	129.99
GeForce GTX 680M KY_Bullet Edition	3,569	NA
GRID M6-8Q	3,568	NA
Radeon R9 M470X	3,563	NA
Quadro K2200	3,545	123.18*
Radeon HD 7970M	3,529	NA
Radeon RX 560X	3,520	NA
Tesla C2050	3,515	269.99*
GeForce GTX 960M	3,514	1,169.00*
FirePro M6100 FireGL V	3,487	NA
Radeon Pro 560	3,475	NA
Quadro M2000M	3,473	279.95*
FirePro W7170M	3,461	NA
Radeon Pro 460	3,453	NA
Tesla C2050 / C2070	3,428	NA
GeForce GTX 870M	3,394	NA
Radeon HD8970M	3,369	NA
Radeon E8870PCIe	3,368	NA
GeForce GTX 680M	3,366	135.99*
Tesla C2075	3,364	340.50*
GeForce GTX 750	3,354	129.99*
GRID P40-2B	3,354	NA
GRID M10-1Q	3,351	NA
GRID K520	3,344	749.95*
GeForce GTX 860M	3,311	NA
Radeon RX Vega M GL	3,284	NA
Tesla C2070	3,275	NA
Tesla M10	3,248	3,202.21*
Quadro P600	3,246	241.04*
GeForce 770M	3,246	176.99*
GRID M10-4Q	3,224	NA

Video Card

GeForce GTX 650 Ti BOOST	3,182	NA
GRID K2	3.176	289.99*
FirePro V7000	3,162	NA
Radeon Pro 555	3,141	NA
Quadro 6000	3,128	258.99*
GeForce MX350	3,124	NA
Radeon Pro 455	3,113	449.00*
GeForce GTX 470	3,112	522.01*
GeForce GTX 880M	3,072	NA
Radeon HD 7790	3,068	180.32*
Radeon R9 M380	3,051	NA
Radeon R9 360	3,032	519.00*
Radeon R7 260X	3,029	132.28*
Radeon R9 260	3,018	NA
GeForce GTX 560 Ti	3,016	81.60*
FirePro W5000	3,014	169.89*
Radeon HD 6970	2,969	59.99*
GeForce GTX 465	2,946	263.28*
Radeon R7 360	2,942	125.00*
GRID K260Q	2,941	NA
Radeon HD 6990	2,933	159.99*
GeForce MX330	2,925	NA
Quadro M620	2,914	NA
P106-090	2,913	NA
Quadro M1000M	2,912	85.99*
Quadro K5100M	2,899	285.99*
Radeon Pro WX 3100	2,897	NA
Quadro K1200	2,893	190.89*
Radeon R7 260	2,892	89.99*
Radeon Pro V340 MxGPU	2,853	NA
Radeon R9 M290X	2,832	NA
FirePro 3D V9800	2,812	2,499.00*
Radeon HD 6950	2,803	148.32*
GeForce GTX 590	2,787	184.00*
Radeon Pro WX 7130	2,763	NA
FirePro V7900	2,749	144.04*
FirePro W4300	2,734	239.99*
GeForce GTX 560	2,731	95.95*
FirePro V9800	2,727	NA
Radeon Pro 450	2,723	NA
FirePro W5100	2,717	279.13*
Barco MXRT 5500	2,702	NA
GeForce GTX 675MX	2,675	NA
GeForce GTX 770M	2,664	138.00*
Quadro K4000	2,663	175.99*
GRID M10-2Q	2,654	NA
GeForce GTX 850M	2,654	NA
FirePro R5000	2,647	109.99*
MONSTER GeForce GTX 675M	2,637	NA
GeForce GT 1030	2,618	74.99
GeForce GTX 950M	2,613	567.00*
GRID M10-8Q	2,606	NA
Radeon Pro WX 3200	2,592	189.99
GeForce MX250	2,576	NA
Quadro K5000M	2,572	389.25*
Radeon HD 6850 X2	2,534	NA
FireStream 9370	2,528	NA
N18E-Q1	2,525	NA

Video Card

Quadro K4100M	2,501	198.02*
GeForce GTX 460 v2	2,497	199.99*
FirePro W8000	2,462	1,048.99*
GeForce GTX 950A	2,461	NA
Radeon HD 5970	2,457	329.99*
FirePro 3D V8800	2,438	424.99*
Radeon R9 M470	2,435	NA
Radeon RX 550	2,434	84.99
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
GeForce MX150	2,382	NA
Radeon HD 5870	2,368	289.00*
GRID K280Q	2,363	NA
GRID M10-1B	2,310	NA
Radeon Pro WX 4130	2,304	NA
GeForce GTX 580M	2,279	248.68*
Quadro K620	2,275	138.83*
Radeon HD 6970M	2,270	215.99*
Radeon R7 250X	2,269	260.70*
Quadro K3100M	2,265	399.95*
GeForce GT 645	2,251	NA
GRID P100-1B	2,223	NA
GeForce GTX 745	2,208	124.04*
GeForce GTX 560 SE	2,201	89.99*
GeForce GTX 460	2,194	169.71*
FirePro M6100	2,186	NA
RadeonT R7 450	2,185	NA
Quadro 5000	2,181	2,303.99
Firepro W5170M	2,176	NA
Intel Iris Pro 580	2,174	NA
Intel Iris Pro P580	2,169	NA
Radeon HD 6870	2,155	150.00*
Radeon TM R9 A360	2,148	NA
Quadro K4000M	2,146	599.99*
GRID K240Q	2,144	NA
Quadro P520	2,130	1,499.00*
GeForce 945M	2,130	NA
Radeon RX Vega 11	2,106	NA
FirePro M5100	2,103	NA
Radeon R9 350	2,101	103.85*
Radeon HD 7770	2,095	145.32*
FirePro V7800	2,091	NA
GRID M6-1Q	2,069	NA
Radeon HD 5850	2,061	79.99*
Quadro 5000M	2,060	NA
GeForce GTX 480M	2,051	NA
GeForce GTX 675M	2,041	NA
GeForce GTX 570M	2,024	NA
Radeon HD 6850	2,015	165.32*
GeForce GTX 670M	2,012	NA
Radeon R9 M360	2,007	NA
Radeon HD 8950	2,003	NA
GeForce MX230	1,997	NA
Embedded Radeon E9173	1,996	NA
GeForce GTX 645	1,994	NA
GeForce GTX 460 SE	1,989	159.99*

Video Card

Radeon R7 + R7 350 Dual	1,982	NA
Radeon R7 + HD 7700 Dual	1,962	NA
Matrox C680 PCIe x16	1,956	NA
GeForce GTX 555	1,952	NA
GeForce GTX 470M	1,950	NA
Quadro M600M	1,932	102.99*
Radeon RX 570X	1,923	NA
GeForce MX130	1,923	NA
Radeon HD 7560D + 7700 Dual	1,919	NA
Intel Iris Plus 645	1,911	NA
Radeon HD 7700-serie	1,899	NA
Radeon HD 8670D + HD 7700 Dual	1,892	NA
Radeon RX 540	1,883	NA
Radeon Pro WX 4150	1,877	NA
FirePro 3D V7800	1,867	599.99*
Radeon R7 450	1,861	52.49*
GeForce 945A	1,852	NA
Radeon Vega 11	1,851	NA
GeForce GT 755M	1,844	NA
FirePro M5100 FireGL V	1,839	NA
GRID M60-0B	1,838	NA
Radeon HD 6790	1,838	64.99*
Intel Iris Plus	1,836	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
Radeon Pro W5500M	1,813	NA
Matrox C900 PCIe x16	1,812	NA
RadeonT RX 560X	1,810	NA
GeForce GTX 765M	1,809	NA
Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Intel Iris Plus 655	1,795	NA
Radeon HD 5830	1,795	159.99*
Intel Iris 650	1,795	NA
Radeon Vega 9	1,792	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
GeForce GTX 670MX	1,775	NA
Radeon HD 6900M	1,763	NA
Radeon RX Vega11	1,760	NA
Radeon R9 M385X	1,760	NA
Radeon R7 M465X	1,757	NA
FirePro M6000 Mobility Pro	1,734	NA
Intel Iris Plus 650	1,731	NA
FirePro W600	1,725	400.99*
Quadro P500	1,724	NA
GeForce GTX 650	1,722	89.35*
FirePro M4000	1,709	NA
Radeon R9 M375X	1,693	NA
FirePro M4000 Mobility Pro	1,688	NA
Quadro K3000M	1,685	155.00*
Radeon HD 7750	1,682	144.99
FirePro W5130M	1,674	NA
Radeon RX 550X	1,674	NA
Quadro P400	1,673	113.59
Quadro K2000D	1,657	415.81
Radeon HD HD7850M	1,652	NA
Intel HD P530	1,641	NA

Video Card

Radeon HD 8870M	1,638	NA
Quadro M520	1,632	NA
Radeon 550X	1,614	NA
GeForce GTX 550 Ti	1,610	131.28*
Seria Radeon HD 7700	1,604	NA
Radeon RX Vega 8	1,595	NA
GeForce GTX 660M	1,581	78.99*
Radeon E8860	1,577	NA
Quadro K2000	1,573	120.00*
Radeon R7 FX-9830P RADEON	1,563	NA
Intel UHD P630	1,561	NA
Radeon Pro WX 2100	1,558	NA
Radeon HD 7560D + HD 6670 Dual	1,555	NA
GeForce 940MX	1,553	NA
Intel UHD 630	1,551	NA
Radeon Vega 8	1,546	126.86*
Radeon HD 8470D + HD 7500 Dual	1,545	NA
Intel Iris Pro Graphics 6200	1,545	NA
GeForce GTX 760M	1,542	NA
FirePro V8700	1,539	NA
Radeon HD 4890	1,535	109.99*
Radeon Vega 10	1,532	NA
Quadro 4000	1,526	957.37
Radeon RX Vega 10	1,515	NA
Radeon HD 7870M	1,507	NA
Ryzen 5 2500U with Radeon Vega	1,503	NA
FirePro W4100	1,500	149.86*
Radeon HD 6670 + 7660D Dual	1,492	NA
Radeon HD 7660D + HD 6670 Dual	1,485	NA
Radeon R9 M365X	1,482	NA
GeForce MX110	1,481	NA
GeForce GTX 285	1,479	179.99*
Radeon Vega 10 Mobile	1,477	NA
Radeon R9 M370X	1,473	NA
Radeon HD 7730	1,469	49.99*
GeForce GT 740	1,467	154.32*
Radeon Vega 8 Mobile	1,462	NA
Radeon R7 M380	1,447	NA
Radeon R9 M270X	1,445	NA
Radeon 540	1,442	NA
Radeon HD 8470D + HD 6670 Dual	1,436	NA
Radeon 540X	1,433	NA
FirePro V5800	1,433	54.99*
Radeon HD 7560D + 7670 Dual	1,426	NA
Radeon R7 M370	1,418	NA
GeForce GTX 275	1,414	119.99*
Radeon Pro WX 4170	1,409	NA
Quadro K2100M	1,401	550.00*
Intel Iris 550	1,400	NA
Radeon HD 7560D + HD 7670 Dual	1,380	NA
Radeon R7 PRO A12-8870	1,376	NA
Radeon HD 7850M	1,373	NA
Intel Iris Pro P6300	1,368	NA
GeForce 930MX	1,367	NA
GeForce GTX 560M	1,367	NA
Intel HD P630	1,367	NA
Radeon R5 A10-9630P 4C+6G	1,366	NA
FirePro M40003	1,364	NA

Radeon HD 8670D + 6670 Dual	1,361	NA
Intel Iris Plus 640	1.358	NA

Video Card

Quadro 4000M	1,347	91.01*
Radeon HD 7560D + HD 7700 Dual	1,347	NA
FireStream 9270	1,341	NA
Radeon R7 PRO A12-9800	1,340	NA
GeForce GT 545	1,339	55.59*
GeForce 845M	1,334	NA
FirePro V5900	1,325	319.99*

** - Last price seen from our affiliates.*

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