Video Card

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.

VIDEO CARD

High End
High Mid Range
Low Mid Range
Low End

Best Value
Common
Market Share (30 Days)

Compare 0

Video Card Mega List
Search Model

GPU Compute Video Card Chart

G3D Mark | Price Performance

PassMark - G3D Mark

High End Videocards

Videocard	Average G3D Mark	Price (USD)
TITAN V CEO Edition	16,988	NA
GeForce RTX 2080 Ti	16,738	999.99
TITAN RTX	16,516	2,499.99
GeForce RTX 2080 SUPER	15,919	699.99
GeForce RTX 2080	15,523	629.99
TITAN Xp COLLECTORS EDITION	15,135	NA
Quadro RTX 6000	14,996	6,300.00*
GeForce RTX 2070 SUPER	14,861	499.99
TITAN V	14,823	3,588.42
Quadro RTX 5000 with Max-Q Design	14,700	NA
NVIDIA TITAN Xp	14,275	1,299.99
GeForce GTX 1080 Ti	14,244	809.99*
Radeon VII	14,174	885.00
GeForce RTX 2070	14,097	469.99
GeForce RTX 2060 SUPER	13,876	399.99
GeForce RTX 2080 (Mobile)	13,774	NA
Radeon RX 5700 XT	13,671	399.99
NVIDIA TITAN X	13,665	1,200.00*
Radeon RX 5700 XT 50th Anniversary	13,611	NA
Quadro P6000	13,452	3,557.00
Quadro RTX 4000	13,027	NA
GeForce RTX 2060	12,894	344.99
Quadro RTX 5000	12,804	NA
GeForce RTX 2080 with Max-Q Design	12,765	NA
Quadro GP100	12,743	NA
Quadro GV100	12,699	NA
GeForce GTX 1080	12,466	689.99*
GeForce GTX 1070 Ti	12,329	549.99
Radeon RX 5700	12,184	329.99
Radeon RX Vega 64	12,127	499.99
Radeon RX Vega 56	12,018	299.99

Video Card

Radeon Pro Vega 56	11,950	NA
Radeon Pro Vega 48	11,831	NA
Radeon Pro Vega 64	11,456	NA
GeForce GTX 980 Ti	11,417	487.48*
GeForce GTX 1070	11,370	404.99*
GeForce RTX 2070 with Max-Q Design	11,345	NA
GeForce RTX 2070 (Mobile)	11,325	NA
Radeon Vega Frontier Edition	11,151	599.99*
Radeon PRO WX 8200	11,124	989.99
Quadro RTX 8000	10,980	NA
Quadro P5200 with Max-Q Design	10,894	NA
GeForce RTX 2060 (Mobile)	10,746	NA
GeForce GTX 1660	10,731	219.99
GeForce GTX TITAN X	10,692	1,999.99*
Radeon Pro WX 9100	10,612	NA
Radeon Pro SSG	10,498	NA
Quadro P4000	10,466	739.29
Quadro P4200 with Max-Q Design	10,421	NA
GeForce GTX 1080 with Max-Q Design	10,229	NA
Quadro P4200	10,166	NA
Quadro P5000	10,106	1,365.00
Quadro M6000 24GB	10,057	NA
Quadro RTX 3000	10,016	NA
GeForce GTX 1660 Ti (Mobile)	9,897	NA
GeForce GTX 980	9,671	525.19
Quadro P2200	9,664	479.84*
Quadro P5200	9,511	NA
GeForce GTX 1070 with Max-Q Design	9,490	NA
GeForce GTX 1070 (Mobile)	9,458	NA
Radeon Pro Duo	9,434	449.00*
Radeon RX 590	9,425	189.99
Quadro M6000	9,351	2,399.00*
Radeon R9 Fury	9,192	399.99*
GeForce GTX 1060	9,097	319.99
Quadro P4000 with Max-Q Design	9,083	NA
GeForce GTX 1060 3GB	8,990	189.99
GeForce GTX 780 Ti	8,887	807.42*
GeForce GTX TITAN Black	8,656	1,399.99*
GeForce GTX 970	8,644	329.99*
Quadro P3200 with Max-Q Design	8,636	NA
Radeon RX 580 2048SP	8,563	NA
Radeon RX 580	8,536	126.37
Quadro M5000	8,518	920.00
Radeon R9 390X	8,498	NA
Radeon R9 Fury + Fury X	8,462	399.99*
GeForce GTX 1660 Ti with Max-Q Design	8,321	NA
Quadro P3200	8,267	NA
Radeon RX 480	8,141	499.99
Radeon R9 390	8,105	NA
GeForce GTX 780	7,957	740.99*
Radeon Pro WX 7100	7,955	489.99
GeForce GTX Titan	7,945	2,054.59*

Video Card

GeForce GTX 1650	7,924	159.99
Quadro M5500	7,915	NA
Quadro T2000	7,816	NA
Radeon R9 295X2	7,776	1,099.99*
Radeon Pro 580	7,753	NA
Radeon RX 470	7,731	300.95
GeForce GTX 1060 (Mobile)	7,670	NA
GeForce GTX TITAN Z	7,654	3,349.99*
FirePro W8100 Graphic Adapter	7,570	NA
Radeon Pro 580X	7,540	NA
Quadro K6000	7,481	943.00
Radeon R9 290X / 390X	7,448	688.88
Quadro P2000	7,239	423.99
Tesla P100-PCIE-16GB	7,225	NA
Tesla M60	7,192	1,999.00*
FirePro W9100	7,189	2,749.99*
Radeon R9 290 / 390	7,147	499.00
GeForce GTX 1650 (Mobile)	7,122	NA
Radeon RX Vega M GH	7,045	NA
Radeon RX 570	6,906	129.99
GeForce GTX 1060 5GB	6,684	NA
Quadro M4000	6,665	423.00
Quadro T1000	6,495	NA
Radeon Pro Vega 20	6,344	NA
Radeon Pro 570	6,337	NA
Radeon R9 380X	6,228	445.00
Radeon R9 380	6,150	264.99*
Quadro K5200	6,095	430.00
FirePro W8100	6,086	1,112.18*
GeForce GTX 770	6,066	702.99*
GeForce GTX 1050 Ti	6,045	164.99
GeForce GTX 1050 Ti (Mobile)	5,960	NA
GeForce GTX 980M	5,955	NA
GRID M60-2Q	5,904	NA
Quadro P3000	5,889	NA
Radeon R9 280X	5,850	NA
GeForce GTX 960	5,826	268.92*
GeForce GTX 1050 Ti with Max-Q Design	5,806	NA
Radeon R9 M395X	5,782	NA
Quadro M5000M	5,694	499.95*
GeForce GTX 680	5,668	579.99*
Radeon Pro WX 5100	5,644	339.99
FirePro W7100 Adapter	5,554	NA
Radeon R9 285 / 380	5,550	310.00
GeForce GTX 1650 with Max-Q Design	5,547	NA
Radeon HD 7990	5,546	1,030.99
FirePro W7100	5,400	289.99*
GeForce GTX 690	5,394	999.00*
Radeon R9 280	5,382	NA
GeForce GTX 670	5,363	474.99*
Quadro P2000 with Max-Q Design	5,335	NA
FirePro W9000	5,305	3,443.99*

Video Card

Radeon HD 7970 / R9 280X	5,248	345.00
GeForce GTX 950	5,243	169.99*
Radeon RX Vega M GL	5,230	NA
GeForce GTX 760 Ti OEM	5,202	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	4,939	249.99*
Radeon RX 560X	4,923	NA
Radeon Sky 500	4,889	NA
Quadro M4000M	4,853	NA
Radeon HD 7950 / R9 280	4,764	365.75
FirePro W8000 Adapter	4,752	NA
GeForce GTX 1050	4,751	144.99
P106-100	4,732	NA
Radeon R9 370	4,722	NA
Radeon R9 270X	4,695	299.00
GRID M60-1Q	4,680	NA
GeForce GTX 660 Ti	4,658	279.99*
Radeon R7 370	4,643	NA
FirePro W8000	4,610	1,048.99*
FirePro W7170M	4,579	NA
Quadro M3000M	4,505	NA
GeForce GTX 1050 (Mobile)	4,473	NA
Quadro K4200	4,471	146.66
Radeon HD 7870 XT	4,470	NA
GRID P6-4Q	4,429	NA
GeForce GTX 570	4,417	99.99*
Quadro P1000	4,412	316.97
GRID K520	4,384	NA
Radeon HD 7870	4,383	299.00
GeForce GTX 480	4,360	71.99*
Radeon R9 M390X	4,357	NA
Radeon RX 460	4,333	75.00*
FirePro W7000	4,323	569.99*
Radeon RX 560	4,322	99.99
Barco MXRT 7500	4,319	NA
Quadro M2000	4,284	339.00
GeForce GTX 680MX	4,275	NA
Radeon R9 270 / R7 370	4,261	153.61
GeForce GTX 970M	4,228	1,899.00*
GeForce GTX 590	4,221	184.00*
GeForce GTX 775M	4,167	NA
FirePro S7000	4,166	NA
GeForce GTX 660	4,130	284.99*
FirePro W7000 Adapter	4,085	NA
Radeon R9 M290X	4,044	NA
GeForce GTX 780M	4,030	NA
Quadro K5000	4,014	273.99
Radeon Pro WX 4100	4,006	249.99

Radeon Pro WX4100	3,953	NA
GeForce GTX 1050 with Max-Q	[illegible]	NA

Video Card

Radeon HD 8970M	3,876	NA
Radeon HD 7850	3,848	449.59
Radeon HD 7970M	3,801	NA
Quadro P620	3,784	174.99
GRID K2	3,773	1,655.00
GeForce GTX 750 Ti	3,766	299.01*
GeForce GTX 880M	3,722	NA
Quadro M2200	3,686	NA
GeForce GTX 470	3,602	522.01*
Quadro K2200	3,598	129.99
Radeon R9 M470X	3,563	NA
RX 560X	3,553	NA
GeForce GTX 650 Ti BOOST	3,539	NA
Quadro 6000	3,529	3,528.44
GeForce GTX 560 Ti	3,529	138.00*
Radeon HD 6970	3,524	94.99*
Tesla C2050	3,515	269.99
Radeon Pro 560	3,475	NA
Radeon Pro 460	3,453	NA
Radeon RX 550	3,445	84.99
Tesla C2050 / C2070	3,428	NA
Radeon HD8970M	3,369	NA
FirePro M6100 FireGL V	3,367	NA
Tesla C2075	3,364	595.75
GeForce GTX 680M	3,346	499.99*
Radeon Pro WX 3100	3,333	NA
GeForce GTX 750	3,327	150.99*
Radeon R7 360	3,317	146.65*
Tesla C2070	3,275	NA
GeForce GTX 965M	3,248	NA
Radeon HD 6950	3,218	89.99*
Radeon Pro WX 4150	3,209	NA
Quadro P600	3,200	169.99*
GRID M60-4Q	3,189	NA
Radeon R7 260X	3,178	220.00*
FirePro V7000 Adapter	3,162	NA
Radeon Pro 555	3,141	NA
GeForce GTX 560	3,118	353.59*
Quadro K5100M	3,114	295.99*
Radeon Pro 455	3,113	NA
Radeon R9 M380	3,101	NA
FirePro W5000	3,085	434.00*
Radeon HD 7790	3,083	134.99*
Quadro M1200	3,056	NA
Quadro K1200	3,050	269.99
Radeon HD 8950	3,038	NA
Radeon R9 360	3,032	519.00*
Radeon R9 260	3,018	NA
FirePro W5100	3,015	279.13*
Radeon Pro WX 4130	2,984	NA
FirePro M6100	2,980	NA

Video Card

GeForce GTX 465	2,947	263.28*
GRID K260Q	2,941	NA
Quadro M2000M	2,929	279.95*
FirePro W4300	2,909	239.99*
Radeon R7 260	2,892	89.99*
Quadro K4000	2,880	165.26
Quadro 5000	2,856	2,112.93
FirePro 3D V9800	2,812	2,499.00*
Quadro M620	2,806	NA
FirePro V9800 Adapter	2,762	NA
FirePro V7900	2,739	119.99*
Radeon Pro 450	2,723	NA
Quadro K2200M	2,717	NA
GeForce GTX 770M	2,661	177.99*
GeForce GTX 650 Ti	2,660	169.99*
GeForce GTX 460	2,654	89.99*
Quadro K5000M	2,627	389.25*
Radeon HD 5870	2,621	99.99*
Radeon HD 6870	2,615	89.99*
Quadro K4100M	2,615	379.99*
Radeon HD 5970	2,603	329.99*
GeForce MX250	2,509	NA
GeForce GTX 460 v2	2,495	199.99*
GeForce GTX 870M	2,461	NA
GeForce GTX 675MX	2,456	NA
FirePro 3D V8800	2,438	424.99*
Radeon R9 M470	2,435	NA
GeForce GTX 960A	2,411	NA
Quadro M1000M	2,401	212.42*
GeForce GTX 485M	2,401	NA
GeForce GTX 960M	2,376	NA
Radeon RX 550X	2,368	NA
GRID K280Q	2,359	NA
Radeon RX 540	2,340	NA
Quadro K620	2,337	154.21
Radeon HD 6850	2,293	99.99*
Radeon HD 5850	2,282	79.99*
Radeon RX Vega 11	2,280	NA
GeForce GTX 580M	2,279	NA
GeForce GT 1030	2,274	84.99
Radeon HD 6970M	2,270	NA
Radeon R7 250X	2,269	260.70
GeForce GTX 460 SE	2,258	159.99*
GeForce GT 645	2,251	NA
Radeon Pro WX 2100	2,248	NA
Quadro K4000M	2,240	599.99*
Radeon R9 350	2,236	103.85
Radeon HD 7770	2,223	315.59
GeForce MX150	2,220	NA
Radeon R7 450	2,196	89.99*
GeForce GTX 745	2,195	NA
GeForce GTX 560 SE	2,193	89.99*
Firepro W5170M	2,191	NA

Video Card

RadeonT R7 450	2,185	NA
GeForce GTX 555	2,154	NA
GeForce GTX 675M	2,148	NA
Intel Iris Pro P580	2,146	NA
GRID K240Q	2,144	NA
Intel Iris Plus	2,119	NA
Radeon R9 M375X	2,108	NA
FirePro M5100	2,103	NA
GeForce GTX 670MX	2,079	NA
Quadro K3100M	2,075	1,999.00*
Radeon R9 M360	2,071	NA
GeForce MX230	2,066	NA
Quadro 5000M	2,060	NA
Radeon R7 M465X	2,057	NA
Radeon HD 5830	2,055	159.99*
Quadro 4000	2,050	139.00
Radeon HD 6790	2,047	64.99*
GeForce GTX 480M	2,040	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	1,976	NA
Radeon HD 6900M	1,966	NA
GeForce MX130	1,964	NA
GeForce GTX 860M	1,963	NA
Radeon R7 + HD 7700 Dual	1,962	NA
Radeon HD 7660D + HD 7700 Dual	1,958	NA
GeForce GTX 470M	1,950	NA
GeForce GTX 670M	1,949	NA
Radeon R9 M370X	1,944	NA
GeForce GTX 645	1,938	NA
Quadro M600M	1,932	102.99*
GeForce GTX 950M	1,928	NA
GeForce GTX 550 Ti	1,923	287.59*
GeForce GTX 765M	1,890	NA
Intel Iris Pro 580	1,880	NA
GeForce GTX 650	1,835	144.81*
FirePro 3D V7800	1,835	599.99*
Radeon HD 8570D + HD 7700 Dual	1,835	NA
Quadro 5010M	1,833	235.95*
MxGPU	1,826	NA
Matrox C900 PCIe x16	1,812	NA
Radeon R9 255	1,808	344.16*
Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Radeon R7 FX-9830P RADEON	1,796	NA
Quadro 4000M	1,794	91.01*
Radeon Vega 10	1,789	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
Radeon RX Vega 8	1,764	NA
Quadro K3000M	1,758	155.00*
FirePro M6000 Mobility Pro	1,734	NA

Video Card

Radeon Vega 8	1,731	NA
Quadro K2000	1,722	143.99
GeForce GTX 950A	1,713	NA
Radeon HD 5770	1,712	115.99*
Radeon HD 7750	1,710	179.00
FirePro M4000 Mobility Pro	1,707	NA
FirePro W600	1,704	319.99*
FirePro W4100 Adapter	1,693	NA
Quadro P500	1,687	NA
Radeon HD 6770	1,685	76.99*
Quadro K2000D	1,676	165.00
FirePro W5130M	1,668	NA
Radeon Vega 10 Mobile	1,656	NA
Quadro P400	1,648	116.99
GeForce GTX 850M	1,645	NA
Radeon Vega 8 Mobile	1,641	NA
Radeon HD 8870M	1,638	NA
FirePro M4000	1,623	NA
Ryzen 7 2700U with Radeon Vega	1,617	NA
Radeon 550X	1,614	NA
GeForce MX110	1,611	NA
Quadro M520	1,606	NA
FirePro W4100	1,602	159.99*
GeForce GT 755M	1,600	NA
Quadro P520	1,584	NA
Intel Iris 550	1,581	NA
Radeon Vega 6	1,578	1,799.99
Radeon E8860	1,577	NA
Radeon 540	1,576	NA
Intel Iris Plus 650	1,575	NA
GeForce GT 740	1,569	94.99*
GeForce GTS 450	1,557	64.99*
Intel Iris Pro Graphics 6200	1,545	NA
Radeon HD 8470D + HD 7500 Dual	1,545	NA
Radeon HD 4890	1,543	109.99*
GeForce GTX 560M	1,542	NA
FirePro V5900	1,531	319.99*
Radeon R9 M275X / M375	1,517	NA
Radeon HD 7870M	1,507	NA
GeForce 945M	1,504	NA
Ryzen 5 2500U with Radeon Vega	1,503	NA
FirePro 3D V5800	1,486	369.99*
Radeon HD 7660D + HD 6670 Dual	1,485	NA
Intel HD P630	1,462	NA
Quadro 3000M	1,461	75.99*
Radeon HD 5750	1,454	69.41*
GeForce GTX 660M	1,446	NA
Radeon R5 A10-9630P 4C+6G	1,437	NA
GeForce GTX 760M	1,432	NA
Radeon HD 7730	1,427	49.99*
Radeon HD 7560D + 7670 Dual	1,426	NA
Radeon R7 430	1,419	174.99
Radeon R9 M270X	1,418	NA

Radeon R7 M370	1,418	NA
Intel Iris Plus 640	1,412	NA

Video Card

GeForce GTX 460M	1,394	NA
FirePro W4170M	1,391	NA
Radeon HD 4870	1,382	59.99*
Radeon R7 PRO A12-8870	1,376	NA
Radeon HD 7850M	1,373	NA
Radeon R7 PRO A10-9700	1,368	NA
GeForce 940MX	1,367	NA
FirePro M40003	1,364	NA
Radeon HD 8670D + 6670 Dual	1,361	NA
Radeon HD 7560D + HD 7700 Dual	1,347	NA
Intel Iris 540	1,343	NA
FireStream 9270	1,341	NA
Quadro K2100M	1,339	159.95*
Radeon R7 PRO A12-9800	1,336	NA

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