

PassMark - G3D Mark

High End Videocards

Videocard	Average G3D Mark	
GeForce RTX 4090	39,359	1,589.00
GeForce RTX 4080	35,343	1,107.99
GeForce RTX 4070 Ti	31,881	799.99
Radeon RX 7900 XTX	31,836	979.99
GeForce RTX 4090 Laptop GPU	29,955	NA
GeForce RTX 3090 Ti	29,878	1,626.46
Radeon RX 7900 XT	29,306	778.83
Radeon RX 6950 XT	29,108	629.99*
GeForce RTX 3080 Ti	27,454	1,143.99
Radeon RX 6900 XT	27,018	1,899.99
GeForce RTX 3090	26,975	979.99
GeForce RTX 3080 12GB	26,883	NA
GeForce RTX 4070	26,857	599.99
GeForce RTX 4080 Laptop GPU	26,811	NA
GeForce RTX 3080	25,436	806.91
Radeon RX 6800 XT	25,127	479.95
GeForce RTX 3070 Ti	23,842	519.99
RTX A5000	23,217	2,141.99*
RTX A6000	22,563	4,673.98
Radeon RX 6800	22,550	426.99
RTX 6000 Ada Generation	22,528	NA
GeForce RTX 3070	22,503	491.15
GeForce RTX 2080 Ti	21,885	1,124.99*
RTX 4000 Ada Generation Laptop GPU	21,533	NA
Radeon RX 6750 XT	21,463	329.99
RTX A4500	21,367	1,079.99*
RTX 5000 Ada Generation Laptop GPU	20,730	NA
GeForce RTX 3060 Ti	20,637	362.99
NVIDIA A10	20,591	NA
GeForce RTX 3080 Ti Laptop GPU	20,453	NA
RTX 4000 SFF Ada Generation	19,925	NA
TITAN V	19,920	1,999.99*
Radeon RX 6700 XT	19,916	339.99
GeForce RTX 4070 Laptop GPU	19,908	NA
TITAN RTX	19,896	2,794.99*
Quadro GV100	19,745	8,999.00*
Radeon PRO W6800	19,596	1,849.99*
GeForce RTX 2080 SUPER	19,579	740.99*
Quadro RTX 8000	19,505	4,741.49*
RTX A5500	19,315	2,169.99*
TITAN Xp COLLECTORS EDITION	19,304	NA
RTX A4000	19,172	749.99*
Radeon RX 6700	19,131	NA
Quadro RTX 6000	19,106	6,300.00*
Radeon RX 6850M XT	19,003	NA
GeForce RTX 4060 Laptop GPU	18,839	NA
GeForce RTX 2080	18,817	797.05*
NVIDIA A10G	18,724	NA
NVIDIA TITAN Xp	18,709	1,645.00*
GeForce RTX 3070 Ti Laptop GPU	18,537	NA
GeForce GTX 1080 Ti	18,516	483.82*
Tesla P40	18,514	NA
GeForce RTX 2070 SUPER	18,262	497.95
RTX A5500 Laptop GPU	18,120	NA
RTX 3500 Ada Generation Laptop GPU	17,923	NA
A40-48Q	17,864	NA
Radeon RX 6650 XT	17,768	244.99

Radeon Pro Vega II	15,668	NA
Quadro GP100	15,608	NA
Radeon Pro W5700	15,566	649.99*
GeForce RTX 3070 Laptop GPU	15,560	NA
GeForce GTX 1080	15,479	442.79*
Quadro RTX 4000	15,464	899.00*
RTX 2000 Ada Generation Laptop GPU	15,361	NA
Radeon RX 6800S	15,240	NA
Radeon RX 6600	15,179	329.00*
GeForce RTX 2080 (Mobile)	15,107	NA
Quadro RTX 5000 (Mobile)	14,832	NA
RTX A3000 12GB Laptop GPU	14,730	NA
Radeon RX 5700	14,725	309.99*
GeForce GTX 1070 Ti	14,709	569.99*
Radeon Pro Vega 64X	14,631	NA
Radeon RX Vega 64	14,617	749.99*
Radeon RX 6700S	14,594	NA
Radeon 6700	14,159	NA
GeForce RTX 2060	14,099	254.99
RTX A2000 12GB	14,059	NA
GeForce RTX 2070 Super with Max-Q Design	14,023	NA
Radeon Pro WX 8200	13,926	1,599.39*
GeForce GTX 980 Ti	13,877	788.44
Radeon RX 5600 XT	13,830	545.00*
GeForce RTX 2080 Super with Max-Q Design	13,747	NA
RTX A2000	13,720	419.00
Quadro RTX 5000 with Max-Q Design	13,709	NA
NVIDIA TITAN X	13,660	608.10*
Radeon RX 6600M	13,632	199.99
Radeon Pro WX 9100	13,554	NA
Radeon RX Vega 56	13,538	752.99*
GeForce GTX 1070	13,514	488.09*
Radeon Vega Frontier Edition	13,463	1,679.99*
Radeon RX 6700M	13,389	279.99
GeForce RTX 3060 Laptop GPU	13,339	309.99*
A10-8Q	13,235	NA
GeForce RTX 2080 with Max-Q Design	13,183	2,099.99*
Radeon PRO W6600X	13,113	NA
GeForce GTX TITAN X	13,099	1,096.99*
GeForce RTX 3050	13,024	219.99
GeForce GTX 1660 Ti	12,949	619.99
Radeon RX 6800M	12,924	NA
Radeon Pro Vega 64	12,919	NA
Quadro P5200	12,846	NA
GeForce GTX 1660 SUPER	12,809	249.99
Radeon RX 5600 OEM	12,738	NA
Radeon Pro 5700 XT	12,690	NA
Quadro RTX 4000 with Max-Q Design	12,688	NA
Tesla T10	12,650	NA
Radeon RX 6650M	12,618	NA
Quadro P5200 with Max-Q Design	12,613	NA
Radeon Pro Vega 56	12,607	NA
RTX A3000 Laptop GPU	12,468	NA
Quadro P4200 with Max-Q Design	12,406	NA
Quadro RTX 4000 (Mobile)	12,384	NA
GeForce RTX 2070 (Mobile)	12,354	NA
Quadro P5000	12,287	1,868.99*
Radeon RX 6850M	12,274	NA
Radeon Pro V520 MxGPU	12,258	NA
GeForce RTX 3050 OEM	11,957	NA

GeForce RTX 3050 Ti Laptop GPU	10,111	NA
GeForce GTX 1650 SUPER	10,109	285.38*
GeForce GTX 1070 with Max-Q Design	10,101	NA
RTX A2000 Laptop GPU	10,094	NA
GeForce GTX 1060	10,073	279.99*
Radeon R9 Fury X	10,058	NA
GeForce RTX 3050 6GB Laptop GPU	9,935	NA
GeForce RTX 2060 with Max-Q Design	9,768	NA
GeForce GTX 1060 3GB	9,742	269.99*
Radeon R9 Fury + Fury X	9,741	449.99*
GeForce GTX 970	9,641	237.99*
Radeon R9 Fury	9,602	443.10*
Radeon RX 590	9,558	549.99*
RTX A1000 Laptop GPU	9,515	NA
Radeon RX 6500 XT	9,491	159.99
Radeon R9 390X	9,463	NA
Radeon Ryzen 9 4900HSS	9,461	NA
GeForce GTX 780 Ti	9,443	339.99*
Quadro P2200	9,380	459.80*
GeForce RTX 3050 Laptop GPU	9,357	269.99*
Quadro M5000	9,319	499.00*
Radeon Pro 5600M	9,281	NA
Radeon RX 5500 XT	9,203	184.99*
NVIDIA A40	9,170	NA
Quadro P3200 with Max-Q Design	9,164	NA
Radeon Pro W5500	9,136	409.99*
Quadro P4000 with Max-Q Design	9,083	NA
GeForce GTX TITAN Black	9,057	524.99*
Radeon R9 390	9,044	NA
Tesla P4	9,015	NA
GeForce GTX TITAN Z	8,987	1.515.00*
Radeon RX 580	8,916	179.99*
GeForce GTX 1060 5GB	8,909	487.99*
Radeon RX 5500	8,811	NA
Quadro P3200	8,806	389.30*
Radeon R9 290X	8,734	NA
Radeon RX 480	8,695	339.99*
GeForce GTX 1660 Ti with Max-Q Design	8,676	NA
Radeon R9 295X2	8,638	499.10*
Quadro RTX 3000 with Max-Q Design	8,622	NA
Intel Arc A770	8,593	339.99
Radeon RX590 GME	8,431	NA
Radeon R9 290	8,402	NA
Radeon R9 290X / 390X	8,389	319.99*
Radeon Pro 5500 XT	8,326	NA
Radeon Pro Duo	8,294	1,199.06*
Tesla V100-PCIE-32GB	8,260	NA
GeForce GTX Titan	8,205	745.00*
Radeon Ryzen 7 6800HS	8,201	NA
GeForce GTX 1060 (Mobile)	8,161	NA
Intel Arc A750	8,160	249.99
Radeon R9 290 / 390	8,150	380.00*
Ryzen 5 4600HS with Radeon Graphics	8,121	NA
Radeon RX 470/570	8,075	388.99*
Quadro K6000	8,066	210.66*
GeForce GTX 780	8,027	279.99*
Radeon RX 6500M	8,023	NA
Ryzen 9 6900HS	8,005	NA
Radeon PRO W6400	7,936	NA
GeForce GTX 1060 with Max-Q Design	7,928	NA

Quadro T2000	7,186	528.35*
Radeon Ryzen 9 7950X 16-Core	7,082	NA
Quadro M5000M	7,035	546.92*
Tesla K80	7,025	593.95*
Quadro P2000	7,015	459.99*
Ryzen 7 4800HS with Radeon Graphics	6,999	NA
GeForce RTX 3050 4GB Laptop GPU	6,996	NA
GeForce GTX 1650 (Mobile)	6,969	NA
T600 Laptop GPU	6,962	NA
RTX A500 Laptop GPU	6,883	NA
Intel Arc A770M	6,880	NA
Quadro T2000 with Max-Q Design	6,873	NA
Ryzen 7 6800HS with Radeon Graphics	6,867	NA
GeForce RTX 2050	6,858	NA
Radeon Pro 5500M	6,822	NA
GeForce GTX 970XM FORCE	6,707	NA
Radeon R9 285	6,680	NA
Quadro T1000 with Max-Q Design	6,666	NA
Quadro M4000	6,641	362.00*
Quadro T1000	6,594	441.99*
Radeon Pro WX 7130	6,578	NA
Radeon RX Vega M GH	6,563	NA
Quadro P3000	6,544	NA
T600	6,499	239.99*
GeForce GTX 1650 Ti with Max-Q Design	6,374	NA
Radeon Ryzen 7 4800HS	6,345	NA
Radeon Pro 570	6,337	NA
GeForce GTX 1050 Ti	6,298	200.39
Quadro M4000M	6,275	254.91*
Radeon R9 380X	6,262	349.99*
Radeon R9 280X	6,257	NA
Radeon R9 380	6,243	89.99*
FirePro W9000	6,138	845.00*
GeForce MX570 A	6,072	NA
GeForce GTX 1650 with Max-Q Design	6,049	NA
GeForce GTX 960	6,025	172.00*
P106-100	6,001	NA
Radeon Pro 5300M	5,973	NA
GRID P100-16Q	5,945	NA
Quadro K5200	5,938	415.00*
GeForce GTX 1050 Ti (Mobile)	5,919	NA
GeForce GTX 770	5,882	249.00*
Radeon PRO Ryzen 7 PRO 6850U	5,858	NA
Ryzen 9 6900HS with Radeon Graphics	5,827	NA
Ryzen 9 5900HS with Radeon Graphics	5,809	NA
A16	5,797	NA
GeForce MX570	5,774	NA
Radeon Ryzen 7 6800H	5,757	NA
GeForce GTX 970M	5,730	209.99*
Ryzen 9 PRO 6950H	5,661	NA
Radeon Ryzen 7 7735H	5,632	NA
Radeon Pro WX 5100	5,607	359.99*
Radeon Ryzen 7 PRO 6850H	5,604	NA
Radeon R9 280	5,601	NA
Ryzen 7 PRO 6850U	5,581	NA
NVIDIA A40-12Q	5,573	NA
Radeon HD 7990	5,566	399.99*
GeForce GTX 690	5,557	280.99*
Radeon R9 285 / 380	5,550	485.00*
GeForce GTX 680	5,524	399.00*

Radeon R9 M295X	5,150	1,449.00*
GeForce GTX 760 Ti	5,145	297.50*
GeForce GTX 1050 3GB	5,132	NA
Radeon Ryzen 7 7735U	5,118	NA
Radeon Ryzen 7 PRO 6850U	5,109	NA
Ryzen 7 PRO 6860Z	5,077	NA
GeForce GTX 1630	5,068	162.99
Ryzen 9 PRO 6950HS with Radeon Graphics	5,068	NA
Quadro P2000 with Max-Q Design	5,062	NA
FirePro S9000	5,059	NA
EIZO Quadro MED-XN51LP	5,048	NA
GeForce GTX 1050	5,047	239.99*
Radeon R9 M395	5,021	NA
Ryzen 7 6800U	5,006	NA
Radeon Ryzen 9 7900 12-Core	4,990	NA
Ryzen 7 PRO 6850U with Radeon Graphics	4,966	NA
Barco MXRT 7600	4,944	602.59*
Radeon R9 270X	4,918	326.50*
FirePro S9050	4,901	NA
Radeon Pro WX Vega M GL	4,897	NA
Radeon Ryzen 7 PRO 6860Z	4,854	NA
Ryzen 7 5800HS with Radeon Graphics	4,839	NA
Radeon Instinct MI25 MxGPU	4,799	NA
Ryzen 7 6800H with Radeon Graphics	4,796	NA
GRID RTX6000P-6Q	4,777	NA
Radeon R9 M395X	4,775	NA
GeForce GTX 760	4,775	149.00*
FirePro S10000	4,768	NA
Radeon HD 7950 / R9 280	4,765	132.20*
Radeon Ryzen 7 6800U	4,762	NA
T550 Laptop GPU	4,760	NA
Radeon Sky 500	4,736	NA
Ryzen 7 PRO 6860Z with Radeon Graphics	4,730	NA
GRID P40-24Q	4,728	NA
Radeon R9 370	4,722	159.99*
Ryzen 7 6800U with Radeon Graphics	4,709	NA
Radeon Pro Vega 16	4,683	NA
Radeon HD 7870	4,644	176.00*
GeForce MX550	4,584	NA
B8DKMDAP	4,557	NA
Radeon Pro 465	4,538	NA
GeForce GTX 580	4,531	139.92*
FirePro S7000	4,524	246.54*
GRID T4-8Q	4,519	NA
Radeon R7 370	4,504	NA
Radeon HD 7870 XT	4,470	NA
GeForce GTX 1050 (Mobile)	4,462	NA
GRID M60-1B	4,457	NA
P104-100	4,450	299.99*
Citrix Indirect Display Adapter	4,447	NA
GRID P6-4Q	4,429	NA
Quadro P1000	4,420	289.99*
Radeon Ryzen 5 6600H	4,412	NA
GeForce GTX 660 Ti	4,367	144.00*
FirePro W7000 Adapter	4,362	NA
Quadro M2200	4,345	249.99*
Radeon Ryzen 5 7535HS	4,343	NA
GRID GTX P40-6	4,340	NA
Tesla K20m	4,331	NA
Quadro K4200	4,317	249.00*

GRID P6-2Q	3,926	NA
Quadro M2000	3,920	264.24*
GeForce GTX 570	3,918	149.99*
Intel Arc A380	3,905	NA
Radeon Ryzen 9 PRO 6950HS	3,902	NA
GeForce GTX 750 Ti	3,900	88.11*
GRID M60-8Q	3,884	NA
Radeon HD 8970M	3,876	139.99*
GeForce GTX 1050 with Max-Q Design	3,857	NA
Radeon HD 7970M	3,847	NA
Radeon Ryzen 9 7900X 12-Core	3,846	NA
GRID RTX8000P-2Q	3,843	NA
GRID P100-8Q	3,841	NA
Radeon HD 7850	3,841	169.99*
Radeon Ryzen 5 6600HS Creator Edition	3,838	NA
GRID M60-4Q	3,831	NA
GRID V100-2Q	3,811	NA
GeForce GTX 780M	3,794	499.00*
GeForce GTX 880M	3,764	NA
Radeon Pro WX 4100	3,759	499.99*
Tesla K40c	3,756	NA
Barco MXRT 7500	3,753	299.00*
Ryzen 7 PRO 6850HS with Radeon Graphics	3,736	NA
Ryzen 5 PRO 6650H with Radeon Graphics	3,727	NA
GeForce MX450	3,717	NA
GeForce GTX 965M	3,711	NA
Eng Sample: 100-000000545-40_Y	3,692	NA
Ryzen 5 6600HS Creator Edition	3,686	NA
Radeon Pro 560X	3,678	NA
Ryzen 5 6600H with Radeon Graphics	3,674	NA
Radeon R9 M485X	3,661	NA
T400 4GB	3,646	NA
Intel Arc A370M	3,646	NA
T500	3,639	NA
Radeon RX 560	3,636	215.99
Ryzen 5 PRO 6650U with Radeon Graphics	3,630	NA
T400	3,621	179.99*
Quadro P620	3,596	577.48
NVIDIA A40-8Q	3,596	NA
Radeon Ryzen 5 PRO 6650U	3,595	NA
GRID RTX8000-2Q	3,574	NA
GeForce GTX 680M KY_Bullet Edition	3,569	NA
GRID M6-8Q	3,568	NA
Radeon RX Vega M GL	3,562	NA
Quadro K2200	3,535	268.30*
Quadro 7000	3,505	NA
Ryzen 5 PRO 6650U	3,493	NA
Tesla M10	3,490	2,695.00*
Radeon Pro 560	3,475	NA
Radeon Ryzen 5 6600U	3,471	NA
GeForce GTX 870M	3,464	NA
Radeon Pro 460	3,453	NA
GRID T4-2Q	3,451	NA
Quadro K2200M	3,441	124.95*
Quadro M2000M	3,436	213.16*
Tesla C2050 / C2070	3,428	NA
GeForce GTX 960M	3,405	1,169.00*
Radeon R9 M470X	3,400	NA
GRID K520	3,399	149.99*
Radeon HD8970M	3,369	NA

Radeon R7 260X	3,145	139.99*
Radeon Pro 555	3,141	1.049.00*
Tesla C2075	3,118	646.00*
Radeon Pro 455	3,113	449.00*
Tesla C2070	3,101	604.00*
Radeon Ryzen 7 5800HS	3,100	NA
Quadro K5100M	3,094	1.108.84*
Intel G35 Express	3,090	NA
Radeon HD 7790	3,090	139.99*
Radeon R7 360	3,066	145.99*
GeForce GTX 470	3,066	59.99*
GeForce GTX 860M	3,042	114.00*
EIZO MED-X5000	3,038	NA
Radeon R9 360	3,032	133.89*
GeForce GTX 560 Ti	3,025	129.99*
Radeon HD 6990	3,013	498.49*
GRID M10-4Q	2,977	NA
FirePro W5100	2,964	125.99*
FirePro W5000	2,960	184.00*
GRID K260Q	2,949	NA
Quadro M1000M	2,924	85.99*
NVIDIA A10-4Q	2,919	NA
Tesla K20Xm	2,918	NA
Radeon R7 260	2,892	89.99*
Ryzen 9 5900HX with Radeon Graphics	2,889	NA
Ryzen 7 PRO 4700G with Radeon Graphics	2,880	NA
Quadro K1200	2,866	285.29*
Eng Sample: 100-000000261-50_Y	2,860	NA
Radeon Pro V340 MxGPU	2,853	NA
GRID K280Q	2,840	NA
GeForce MX350	2,830	NA
Radeon HD 6970	2,822	149.99*
FirePro 3D V9800	2,812	2.499.00*
Ryzen 7 5700G with Radeon Graphics	2,803	NA
Quadro M620	2,799	NA
GeForce GTX 770M	2,788	138.00*
Ryzen 7 5800H with Radeon Graphics	2,782	NA
Radeon Ryzen 7 PRO 7730U	2,781	NA
Radeon R9 M380	2,770	NA
Quadro K5000M	2,763	508.91*
Radeon Eng Sample: 100-000000300-40_Y	2,762	NA
FirePro W4300	2,757	239.99*
Radeon Ryzen 9 5900H	2,755	NA
Radeon Ryzen 9 5980HS	2,749	NA
GeForce GTX 675MX	2,748	NA
Custom GPU 0405	2,743	NA
GRID K2	2,737	4.449.99
FirePro S7150	2,727	1.697.99*
FirePro V9800	2,727	474.00*
Radeon Pro 450	2,723	NA
FirePro M6100 FireGL V	2,723	NA
GeForce GTX 560	2,716	205.00*
Ryzen 9 4900H with Radeon Graphics	2,714	NA
GRID T4-1Q	2,703	NA
Barco MXRT 5500	2,702	299.00*
Quadro K4000	2,698	270.00*
Radeon Ryzen 7 4700GE	2,695	NA
GRID M10-2Q	2,692	NA
Quadro 6000	2,691	4.092.38*
Intel Iris Xe	2,690	NA

Radeon HD 6850 X2	2,534	NA
GeForce GTX 850M	2,534	NA
Ryzen 9 5980HS with Radeon Graphics	2,534	NA
GeForce GTX 650 Ti	2,532	93.05*
FireStream 9370	2,528	NA
N18E-Q1	2,525	NA
GeForce GTX 950A	2,524	NA
Ryzen 5 PRO 5650G with Radeon Graphics	2,505	NA
Ryzen 7 4700GE with Radeon Graphics	2,496	NA
GeForce GT 1030	2,494	104.53
GeForce MX330	2,493	NA
Radeon Pro WX 3200	2,473	219.99
Ryzen 5 PRO 5650GE with Radeon Graphics	2,471	NA
Barco MXRT 5600	2,466	704.00*
Radeon Eng Sample: 100-000000146-40_42/35_Y	2,464	NA
GeForce MX250	2,456	NA
Ryzen 7 PRO 5750G with Radeon Graphics	2,453	NA
Radeon Ryzen 5 5600H	2,447	NA
FirePro 3D V8800	2,438	424.99*
Radeon Pro WX 3100	2,434	NA
Ryzen 5 Pro 4650G with Radeon Graphics	2,418	NA
Radeon Eng Sample: 100-000000262-30_Y	2,416	NA
Ryzen 5 4600G with Radeon Graphics	2,415	NA
GeForce GTX 960A	2,411	NA
Radeon RX Vega 11 PRD	2,402	NA
Radeon Ryzen 7 7730U	2,391	NA
Radeon Ryzen 5 7600 6-Core	2,390	NA
Ryzen 7 5800U with Radeon Graphics	2,388	NA
Radeon Ryzen 7 5800U	2,363	NA
GeForce GTX 485M	2,360	NA
FirePro W6150M	2,358	NA
Radeon Pro WX 4150	2,345	610.04*
Ryzen 7 4800U with Radeon Graphics	2,344	NA
P106-090	2,343	NA
Radeon Ryzen 7 5825U	2,335	NA
GRID M10-2B	2,333	NA
Ryzen 5 5600H with Radeon Graphics	2,333	NA
Radeon R9 M470	2,331	NA
GRID M10-1B	2,310	NA
Radeon HD 5970	2,308	179.99*
Ryzen 3 PRO 5350GE with Radeon Graphics	2,307	NA
Ryzen 5 PRO 4400G with Radeon Graphics	2,306	NA
FirePro V7900	2,305	190.00*