

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

New Laptop CPU Performance

This chart comparing performance of CPUs designed for laptop and portable machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

Notes:

- While we try to keep this chart mainly desktop CPU free, there might be some desktop processors in the list. This is because the classification of a laptop CPU is determined at result submission time by the user of PerformanceTest. Some users incorrectly clicked the "Laptop" check box.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older laptop CPUs may not appear.

CPU Mark	Price Performance	Sorted by Date
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PassMark - CPU Mark


Laptop & Portable CPU Performance

Updated 18th of February 2021

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 5900HX	24,001	NA
AMD Ryzen 9 5900HS	23,336	NA
AMD Ryzen 7 5800	21,612	NA
AMD Ryzen 7 5800U	19,887	NA
AMD Ryzen 9 4900HS	19,828	NA
AMD Ryzen 7 4800H	19,201	NA
AMD Ryzen 9 4900H	19,042	NA
AMD Ryzen 7 4800HS	19,010	NA
AMD Ryzen 7 Extreme Edition	18,283	NA
Intel Xeon W-10885M @ 2.40GHz	17,314	\$623.00*
AMD Ryzen 7 4800U	17,292	NA
Intel Core i9-10980HK @ 2.40GHz	16,599	\$583.00*
Intel Core i7-10700TE @ 2.00GHz	16,332	\$330.00*
Intel Core i9-10885H @ 2.40GHz	16,050	\$556.00*
Intel Core i7-10875H @ 2.30GHz	15,972	\$450.00*
Intel Core i7-10870H @ 2.20GHz	15,916	\$417.00*
Intel Xeon E-2286M @ 2.40GHz	15,702	\$1,618.06*
AMD Ryzen 7 PRO 4750U	15,603	NA

Intel Core i9-9980HK @ 2.40GHz	15,117	\$583.00*
AMD Ryzen 5 4600H	14,844	NA
 CPU Benchmarks ▼		
AMD Ryzen 5 4600HS	14,475	NA
Intel Core i9-9880H @ 2.30GHz	14,052	\$556.00*
AMD Ryzen 5 4600U	13,948	NA
AMD Ryzen 7 4700U	13,789	NA
Intel Core i7-11370H @ 3.30GHz	13,318	\$426.00*
Intel Xeon W-10855M @ 2.80GHz	13,239	\$450.00*
AMD Ryzen 5 PRO 4650U	12,912	NA
Intel Core i7-10850H @ 2.70GHz	12,669	\$395.00*
Intel Core i7-10750H @ 2.60GHz	12,620	NA
Intel Core i7-8700B @ 3.20GHz	12,548	\$303.00*
Intel Xeon E-2276M @ 2.80GHz	12,216	\$450.00*
AMD Ryzen 5 PRO 4500U	12,049	NA
Intel Core i7-9750HF @ 2.60GHz	11,698	\$395.00*
Intel Core i7-9850H @ 2.60GHz	11,692	\$1,305.76*
Intel Core i7-1185G7 @ 3.00GHz	11,575	\$426.00*
Intel Core i7-9750H @ 2.60GHz	11,337	\$2,159.00*
Intel Xeon E-2176M @ 2.70GHz	11,307	\$450.00*
AMD Ryzen 5 4500U	11,272	NA
AMD Ryzen 3 PRO 4200GE	11,006	NA
Intel Xeon E-2186M @ 2.90GHz	10,995	\$623.00*
Intel Core i7-1160G7 @ 1.20GHz	10,897	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz	10,782	NA
Intel Core i9-8950HK @ 2.90GHz	10,773	\$583.00*
Intel Core i7-1068NG7 @ 2.30GHz	10,689	\$426.00*
Intel Core i7-9700TE @ 1.80GHz	10,645	\$323.00*
Intel Core i7-8850H @ 2.60GHz	10,477	\$395.00*
Intel Core i7-1165G7 @ 2.80GHz	10,463	\$426.00*
Intel Core i3-1125G4 @ 2.00GHz	10,327	NA
Intel Core i5-1130G7 @ 1.10GHz	10,274	\$309.00*
Intel Core i7-8750H @ 2.20GHz	10,204	\$395.00*
AMD Ryzen 3 PRO 4450U	10,097	NA
Intel Core i7-10710U @ 1.10GHz	10,028	\$587.00
Intel Core i5-1135G7 @ 2.40GHz	9,893	\$309.00*
Intel Core i5-9400F @ 2.90GHz	9,584	\$141.99
Intel Core i5-1038NG7 @ 2.00GHz	9,554	\$320.00*
Intel Core i5-8500B @ 3.00GHz	9,538	\$192.00*
Intel Core i7-8569U @ 2.80GHz	9,251	\$431.00*
Intel Core i5-9500TE @ 2.20GHz	9,212	\$192.00*
Intel Core i7-9850HL @ 1.90GHz	9,112	\$395.00*
Intel Core i7-10810U @ 1.10GHz	9,068	\$443.00*
Intel Core i5-10200H @ 2.40GHz	8,937	\$250.00*
Intel Core i7-8559U @ 2.70GHz	8,913	\$689.00
Intel Core i7-1065G7 @ 1.30GHz	8,895	\$426.00*
Intel Core i5-10400H @ 2.60GHz	8,863	\$250.00*

Intel Core i7-8809G @ 3.10GHz	8,770	NA
Intel Core i5-1035G7 @ 1.20GHz	8,391	\$320.00*
 CPU Benchmarks ▼		
Intel Core i5-1035G4 @ 1.10GHz	8,353	\$309.00*
Intel Core i5-8259U @ 2.30GHz	8,325	\$567.51
Intel Core i5-9400H @ 2.50GHz	8,259	\$250.00*
Intel Core i5-8400H @ 2.50GHz	8,175	\$250.00*
Intel Core i7-8706G @ 3.10GHz	8,136	NA
AMD Ryzen 5 3550H	8,113	NA
AMD Ryzen Embedded V1807B	8,095	NA
Intel Core i5-1035G1 @ 1.00GHz	7,980	\$297.00*
AMD Ryzen 5 3580U	7,949	NA
Intel Core i7-8709G @ 3.10GHz	7,921	NA
Intel Core i5-8279U @ 2.40GHz	7,917	\$320.00*
Intel Core i5-8257U @ 1.40GHz	7,917	\$320.00*
Intel Core i5-9300H @ 2.40GHz	7,909	\$250.00*
Intel Core i7-8705G @ 3.10GHz	7,851	\$1,535.11*
Intel Core i7-8557U @ 1.70GHz	7,820	\$431.00*
AMD Ryzen 3 4300U	7,696	NA
Intel Core i5-9300HF @ 2.40GHz	7,681	\$250.00*
AMD Ryzen 7 2800H	7,656	NA
Intel Core i5-8260U @ 1.60GHz	7,630	\$389.99
Intel Core i5-8300H @ 2.30GHz	7,594	\$250.00*
Intel Core i3-10100T @ 3.00GHz	7,555	\$122.00*
AMD Ryzen 5 2600H	7,537	NA
AMD Ryzen 7 PRO 3700U	7,440	NA
AMD Ryzen 7 3700U	7,349	NA
AMD Ryzen 5 3450U	7,255	NA
Intel Core i7-10610U @ 1.80GHz	7,245	\$409.00*
AMD Ryzen 7 3780U	7,194	NA
AMD Ryzen 5 3500U	7,180	NA
AMD Ryzen 7 PRO 2700U	7,166	NA
AMD Ryzen 3 PRO 3200GE	7,113	NA
Intel Core i5-8305G @ 2.80GHz	7,073	NA
Intel Core i7-7820EQ @ 3.00GHz	7,059	\$378.00*
Intel Core i7-5850EQ @ 2.70GHz	7,036	\$435.00*
Intel Core i7-10510U @ 1.80GHz	7,019	\$409.00*
Intel Core i5-10310U @ 1.70GHz	6,975	\$297.00*
AMD Ryzen 5 PRO 3500U	6,961	NA
AMD Ryzen Embedded V1605B	6,905	NA
Intel Core i3-8100B @ 3.60GHz	6,829	\$133.00*
Intel Xeon E3-1268L v5 @ 2.40GHz	6,600	\$456.54*
AMD Ryzen 5 PRO 2500U	6,589	NA
Intel Core i7-8665UE @ 1.70GHz	6,587	\$409.00*
Intel Core i7-8665U @ 1.90GHz	6,558	\$648.00
Intel Core i5-10210U @ 1.60GHz	6,544	\$539.00
Intel Core i7-8565U @ 1.80GHz	6,409	NA

Intel Core i5-8365U @ 1.60GHz	6,371	\$594.99*
Intel Core i7-1060NG7 @ 1.20GHz	6,234	NA
 CPU Benchmarks ▼		
Intel Core i7-8565UC @ 1.80GHz	6,187	NA
Intel Core i5-8265U @ 1.60GHz	6,166	\$749.00*
AMD Ryzen 3 PRO 3300U	6,060	NA
Intel Core i5-8265UC @ 1.60GHz	5,988	NA
AMD Ryzen 3 3300U	5,855	NA
Intel Core i5-7440EQ @ 2.90GHz	5,711	\$250.00*
Intel Core i3-9100TE @ 2.20GHz	5,705	\$122.00*
Intel Pentium Gold 7505 @ 2.00GHz	5,578	NA
Intel Core i5-1030NG7 @ 1.10GHz	5,416	NA
Intel Core i5-8365UE @ 1.60GHz	5,408	\$297.00*
AMD Ryzen 3 2300U	5,396	NA
Intel Core i7-10510Y @ 1.20GHz	5,289	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz	5,260	\$281.00*
Intel Core i5-10210Y @ 1.00GHz	4,918	NA
Intel Core i5-7442EQ @ 2.10GHz	4,834	\$250.00*
AMD Athlon Silver 3050GE	4,545	NA
AMD Athlon 220GE	4,538	\$210.24
Intel Core i5-6442EQ @ 1.90GHz	4,519	\$250.00*
Intel Core i3-1000NG4 @ 1.10GHz	4,460	NA
Intel Core i3-8121U @ 2.20GHz	4,366	\$397.00
Intel Core i3-8109U @ 3.00GHz	4,357	\$248.81
AMD Athlon Gold 3150U	4,218	NA
Intel Core i3-8145UE @ 2.20GHz	4,193	\$281.00*
AMD Ryzen 3 3250U	4,168	NA
Intel Core i5-7287U @ 3.30GHz	4,149	NA
Intel Core i3-10110U @ 2.10GHz	4,093	\$309.95
AMD Athlon 300U	4,051	NA
Microsoft ARM SQ1 @ 3.0 GHz	4,024	NA
AMD Ryzen 3 3200U	3,991	NA
AMD Ryzen Embedded R1505G	3,921	NA
Intel Core i7-6660U @ 2.40GHz	3,845	\$415.00*
AMD Ryzen Embedded V1202B	3,823	NA
Intel Core i3-8145U @ 2.10GHz	3,807	\$281.00*
Intel Core i3-8130U @ 2.20GHz	3,670	\$281.00*
AMD A8-7680	3,553	\$50.08*
Intel Core i3-10110Y @ 1.00GHz	3,504	\$287.00*
Intel Core i3-7167U @ 2.80GHz	3,489	NA
AMD Embedded R-Series RX-418GD Radeon R6	3,426	NA
Intel Core i5-L16G7 @ 1.40GHz	3,307	\$281.00*
AMD Ryzen Embedded R1305G	3,306	NA
AMD Athlon Silver 3050U	3,197	NA
Intel Core i7-8500Y @ 1.50GHz	3,071	\$393.00*
Intel Core m3-8100Y @ 1.10GHz	3,044	\$281.00*

AMD A6-9400	2,717	NA
AMD A9-9415e	2,678	NA
 CPU Benchmarks ▼		
AMD 3020e	2,652	NA
Intel Pentium Silver N5000 @ 1.10GHz	2,607	\$161.00*
Intel Core i3-7020U @ 2.30GHz	2,584	\$281.00*
Intel Celeron N4120 @ 1.10GHz	2,524	NA
Intel Core i3-7102E @ 2.10GHz	2,521	\$225.00*
Intel Celeron N4100 @ 1.10GHz	2,475	\$107.00*
Intel Core i3-6102E @ 1.90GHz	2,349	\$225.00*
Intel Pentium 6405U @ 2.40GHz	2,342	\$161.00*
Intel Core i5-8200Y @ 1.30GHz	2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz	2,305	\$161.00*
Intel Celeron 6305 @ 1.80GHz	2,246	NA
Intel Pentium 4417U @ 2.30GHz	2,227	\$161.00*
Intel Pentium G4400TE @ 2.40GHz	2,190	\$64.00*
Intel Celeron G3900TE @ 2.30GHz	1,967	\$42.00*
Intel Celeron 4305UE @ 2.00GHz	1,950	NA
Intel Atom E3940 @ 1.60GHz	1,940	NA
AMD GX-420MC SOC	1,796	NA
AMD PRO A6-7350B	1,679	NA
Intel Pentium 4425Y @ 1.70GHz	1,654	\$161.00*
Intel Celeron N4020 @ 1.10GHz	1,636	NA
Intel Pentium 4415Y @ 1.60GHz	1,617	\$161.00*
Intel Celeron N4000C @ 1.10GHz	1,596	NA
AMD A9-9425	1,555	NA
Intel Celeron 3867U @ 1.80GHz	1,467	\$107.00*
Intel Celeron N4000 @ 1.10GHz	1,446	\$107.00*
Intel Celeron 5205U @ 1.90GHz	1,432	\$107.00*
AMD A6-9225	1,345	NA
Intel Atom T5700 @ 1.70GHz	1,326	NA
Intel Celeron 4205U @ 1.80GHz	1,300	\$107.00*
Intel Celeron 1020M @ 2.10GHz	1,275	NA
AMD A6-9220C	1,273	NA
Intel Pentium A1020 @ 2.41GHz	1,265	NA
AMD A4-9125	1,235	NA
Intel Celeron 3965Y @ 1.50GHz	1,220	\$107.00*
AMD R-272F APU	1,215	NA
AMD A9-9420e	1,118	NA
Intel Celeron 2002E @ 1.50GHz	1,091	\$86.00*
Intel Atom C2538 @ 2.40GHz	1,086	\$104.00*
AMD A6-9200	1,062	NA
AMD PRO A4-4350B	1,046	NA
AMD A6-9220e	959	NA
AMD A4-9120e	908	NA
AMD A4-9120C	785	NA
AMD G-T40R	120	NA

Software

Hardware



CPU Benchmarks ▼

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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.

G3D Mark	Price Performance
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PassMark - G3D Mark


High End Videocards


Videocard	Average G3D Mark	Price (USD)
GeForce RTX 3090	25,445	2,269.99
Radeon RX 6900 XT	24,885	1,459.99*
Radeon RX 6800 XT	24,377	679.99
GeForce RTX 3080	24,103	1,139.99
RTX A6000	21,976	NA
RX6800 XT	21,734	NA
GeForce RTX 3070	21,650	799.99
GeForce RTX 2080 Ti	21,631	999.99*
Radeon RX 6800	21,311	839.99
Quadro RTX 8000	20,437	4,741.49*
Quadro RTX 6000	20,348	6,300.00*
TITAN RTX	19,949	2,499.00*
GeForce RTX 3060 Ti	19,488	509.99
GeForce RTX 2080 SUPER	19,414	719.99
TITAN V	19,378	2,149.99*
GeForce RTX 2080	18,599	1,449.99*
NVIDIA TITAN Xp	18,280	1,398.68*
GeForce RTX 2070 SUPER	18,113	524.99
TITAN Xp	18,025	NA
GeForce GTX 1080 Ti	17,872	800.08*
Radeon Pro VII	17,228	NA
TITAN X COLLECTOR EDITION	15,000	...


TITAN V CEO Edition	16,988	NA
Quadro RTX 5000	16,851	NA
 Video Card ▼		
Quadro P6000	16,680	2,749.99*
Radeon RX 5700 XT 50th Anniversary	16,649	NA
GeForce RTX 2060 SUPER	16,436	419.99
Quadro GP100	16,227	NA
GeForce RTX 2070	16,098	419.99
GeForce RTX 3080 Laptop GPU	15,755	NA
Quadro RTX 4000	15,303	899.00*
Radeon Pro W5700	15,108	869.99
GeForce RTX 2080 (Mobile)	15,107	NA
GeForce GTX 1080	14,946	379.99*
Quadro RTX 5000 with Max-Q Design	14,892	NA
Quadro RTX 5000 (Mobile)	14,832	NA
GeForce RTX 2070 Super with Max-Q Design	14,752	NA
Radeon Pro Vega II	14,738	NA
Radeon RX 5700	14,573	309.99
Radeon RX Vega 64	14,558	389.99*
Radeon Pro WX 8200	14,189	1,037.99
GeForce GTX 1070 Ti	14,148	549.99*
GeForce RTX 3070 Laptop GPU	14,053	NA
GeForce RTX 2080 with Max-Q Design	13,974	2,099.99*
GeForce RTX 2060	13,901	399.99*
Radeon Pro WX 9100	13,809	NA
GeForce GTX 980 Ti	13,807	309.20*
Radeon RX 5600 XT	13,679	269.99
NVIDIA TITAN X	13,660	608.10*
GeForce RTX 2080 Super with Max-Q Design	13,617	NA
Radeon Vega Frontier Edition	13,603	890.00*
Radeon RX Vega 56	13,574	519.99*
GeForce GTX 1070	13,351	443.78*
Quadro RTX 4000 (Mobile)	13,029	NA
Quadro M6000 24GB	12,971	NA
GeForce GTX TITAN X	12,934	599.99*
Quadro GV100	12,721	8,999.00*
Radeon Pro V520 MxGPU	12,719	NA
GeForce GTX 1660 SUPER	12,665	239.99
GeForce RTX 2070 (Mobile)	12,354	NA
GeForce RTX 2070 with Max-Q Design	12,277	NA
Quadro RTX 4000 with Max-Q Design	12,277	NA
Radeon Pro Vega 56	12,209	NA
GeForce GTX 1660 Ti	12,013	299.99
Quadro P4200 with Max-Q Design	11,869	NA
Quadro P4200	11,820	NA
Radeon Pro 5700	11,814	NA
Radeon Pro 5700 XT	11,807	NA


GeForce GTX 1660	11,557	229.99
Quadro P5000	11,542	1,700.64*
 Video Card ▼		
Quadro P5200	11,440	NA
GeForce GTX 1080 with Max-Q Design	11,432	NA
Quadro P4000	11,400	784.99*
GeForce RTX 2060 (Mobile)	11,355	NA
Radeon RX 5600	11,308	NA
Radeon Pro Vega 48	11,269	NA
Quadro RTX 3000	11,162	NA
GeForce GTX 980	11,138	223.10*
Quadro M6000	11,125	1,599.99*
Tesla T4	10,706	NA
Radeon Pro SSG	10,498	NA
Radeon Instinct MI25 MxGPU	10,466	NA
GeForce GTX 1070 (Mobile)	10,465	NA
GeForce GTX 1070 with Max-Q Design	10,330	NA
GeForce GTX 1660 Ti (Mobile)	10,176	NA
GeForce GTX 1060	10,014	325.88*
Radeon Pro 5600M	9,912	NA
GeForce GTX 1650 SUPER	9,837	159.99
Radeon R9 Fury X	9,827	NA
Quadro P5200 with Max-Q Design	9,796	NA
GeForce RTX 2060 with Max-Q Design	9,774	NA
Radeon R9 Fury + Fury X	9,741	374.10*
GeForce GTX 970	9,688	197.44*
Radeon R9 Fury	9,647	443.10*
GeForce GTX 1060 3GB	9,632	247.37*
Radeon RX 590	9,570	159.99
Radeon R9 390X	9,495	NA
Radeon Pro W5500	9,301	433.99
GeForce GTX 780 Ti	9,252	225.10*
GeForce GTX TITAN Black	9,135	433.10*
Quadro P2200	9,131	429.99
Quadro P4000 with Max-Q Design	9,083	NA
Radeon RX 5500 XT	9,079	179.99
Quadro M5000	9,073	648.99*
Quadro P3200 with Max-Q Design	9,027	NA
Radeon Pro Duo	8,986	449.00*
Radeon R9 390	8,889	NA
Quadro RTX 3000 with Max-Q Design	8,831	NA
Radeon RX 580	8,801	149.99
Radeon R9 290X	8,687	NA
Radeon RX590 GME	8,627	NA
Radeon RX 480	8,611	198.25*
GeForce GTX 1660 Ti with Max-Q Design	8,571	NA
Radeon RX 5500	8,494	NA

Radeon R9 290X / 390X	8,389	<u>220.10*</u>
Radeon R9 290	8,375	NA
 Video Card ▼		
Radeon R9 295X2	8,253	<u>499.10*</u>
GeForce GTX TITAN Z	8,238	<u>919.10*</u>
15FF	8,229	<u>NA</u>
GeForce GTX 1060 (Mobile)	8,161	<u>NA</u>
Radeon R9 290 / 390	8,150	<u>179.32*</u>
Quadro K6000	8,012	<u>158.56</u>
GeForce GTX 1060 with Max-Q Design	7,996	<u>NA</u>
Radeon RX 470	7,977	<u>99.99*</u>
GeForce GTX 780	7,967	<u>129.99*</u>
Radeon RX 580 2048SP	7,928	<u>NA</u>
Quadro M5500	7,915	<u>NA</u>
Quadro P3200	7,888	<u>NA</u>
Radeon RX 580X	7,798	<u>NA</u>
Radeon Pro 5300	7,772	<u>NA</u>
Radeon Pro 580	7,753	<u>NA</u>
FirePro W9100	7,750	<u>3,593.10*</u>
Radeon RX 5600M	7,728	<u>NA</u>
GeForce GTX 1650	7,722	<u>139.99</u>
Tesla M6	7,621	<u>NA</u>
Radeon Pro 580X	7,540	<u>NA</u>
GeForce GTX 1650 Ti	7,525	<u>NA</u>
GeForce GTX 980M	7,432	<u>289.99*</u>
Radeon Pro WX 7100	7,378	<u>559.99</u>
Tesla M60	7,329	<u>1,395.00*</u>
Tesla P100-PCIE-16GB	7,225	<u>NA</u>
FirePro W8100	7,133	<u>1,112.18*</u>
Quadro P2000	7,118	<u>464.90*</u>
Quadro M5000M	7,035	<u>499.95*</u>
Quadro T2000	6,982	<u>NA</u>
GeForce GTX 1650 (Mobile)	6,969	<u>NA</u>
Radeon RX 570	6,967	<u>194.99</u>
Quadro P3000	6,873	<u>NA</u>
Quadro T2000 with Max-Q Design	6,828	<u>NA</u>
Quadro M4000M	6,807	<u>NA</u>
Radeon RX Vega M GH	6,802	<u>NA</u>
Radeon Pro 5500M	6,751	<u>NA</u>
GeForce GTX 970XM FORCE	6,707	<u>NA</u>
GeForce GTX 1060 5GB	6,697	<u>NA</u>
Quadro T1000 with Max-Q Design	6,608	<u>NA</u>
Quadro T1000	6,526	<u>NA</u>
Quadro M4000	6,494	<u>780.99*</u>
GeForce GTX 1050 Ti	6,345	<u>159.99</u>
Radeon Pro 570	6,337	<u>NA</u>
FirePro S7150	6,276	<u>2,940.21*</u>

Radeon R9 280X	6,219	NA
Radeon R9 380	6,208	89.99*
 Video Card ▼		
Radeon Pro WX Vega M GL	6,049	NA
GeForce GTX 960	6,009	113.27*
Quadro K5200	5,946	680.45
GRID P100-16Q	5,945	NA
Radeon Pro Vega 20	5,942	NA
GeForce GTX 1050 Ti (Mobile)	5,919	NA
FirePro W9000	5,908	3,443.99*
GeForce GTX 770	5,883	109.95*
GeForce GTX 970M	5,837	209.99*
GeForce GTX 690	5,764	264.10*
GeForce GTX 1650 with Max-Q Design	5,757	NA
GeForce GTX 1050 Ti with Max-Q Design	5,615	NA
Radeon Pro 5300M	5,566	NA
Radeon HD 7990	5,566	990.44*
Radeon R9 285 / 380	5,550	449.99*
Radeon R9 280	5,546	NA
GeForce GTX 680	5,540	179.99*
GRID M60-8A	5,523	NA
Quadro M3000M	5,475	159.95*
GeForce GTX 950	5,375	86.00*
Radeon Pro WX 5100	5,341	399.99
GeForce GTX 670	5,318	149.00*
GRID M60-2Q	5,291	NA
GeForce GTX 1050	5,256	179.99*
GeForce GTX 760 Ti OEM	5,253	NA
Radeon HD 7970 / R9 280X	5,248	125.99*
FirePro S10000	5,235	NA
Radeon HD 8990	5,214	NA
Q12U-1	5,164	NA
Radeon R9 M295X	5,150	NA
Quadro P2000 with Max-Q Design	5,122	NA
GeForce GTX 760 Ti	5,119	297.50*
T500	5,069	NA
FirePro S9000	5,059	NA
Radeon R9 M395	5,023	NA
P106-100	5,023	NA
FirePro W7100	4,975	289.99*
EIZO Quadro MED-XN51LP	4,955	NA
Barco MXRT 7600	4,944	NA
Radeon Sky 500	4,889	NA
Radeon R9 270X	4,857	149.99*
Radeon R9 M485X	4,842	NA
Radeon R9 M395X	4,775	NA
Radeon HD 7950 / R9 280	4,765	210.01*

GRID P40-24Q	4,728	NA
Radeon R9 370	4,722	NA
 Video Card ▼		
Radeon Pro Vega 16	4,683	NA
Radeon HD 7870	4,677	147.00*
B8DKMDAP	4,557	NA
Radeon Pro 465	4,538	NA
GeForce GTX 580	4,506	145.32*
Quadro M2200	4,497	249.99*
FirePro W7000 Adapter	4,492	NA
Radeon HD 7870 XT	4,470	NA
GeForce GTX 1050 (Mobile)	4,462	NA
GRID M60-1B	4,457	NA
Citrix Indirect Display Adapter	4,447	NA
Radeon R7 370	4,446	NA
GRID P6-4Q	4,429	NA
Quadro P1000	4,403	329.99
GeForce GTX 660 Ti	4,367	486.68*
Radeon R9 M390X	4,357	NA
Barco MXRT 7500	4,319	NA
GRID P40-2Q	4,288	NA
Quadro K4200	4,283	239.99*
GRID T4-4Q	4,281	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
Radeon R9 270	4,213	NA
FirePro W7000	4,212	146.02*
FirePro S7000	4,166	NA
GRID V100D-8Q	4,156	NA
Radeon RX 460	4,111	274.10*
GeForce GTX 480	4,052	579.00*
GeForce GTX 880M	4,034	NA
Radeon HD 7800-serie	4,029	NA
GeForce GTX 1050 with Max-Q Design	4,016	NA
GRID P6-2Q	4,001	NA
Quadro M2000	3,977	298.99*
GeForce GTX 965M	3,971	NA
Radeon RX 5500M	3,952	NA
GeForce GTX 660	3,932	124.97*
GeForce GTX 750 Ti	3,928	155.32*
Quadro K2200M	3,893	124.95*
GRID M60-8Q	3,884	NA
Quadro K5000	3,883	384.98*
Radeon HD 8970M	3,876	139.99*
FirePro W7170M	3,849	NA

GRID M60-4Q	3,831	NA
GeForce GTX 570	3,829	298.68*
 Video Card ▼		
Radeon Pro WX 4100	3,717	259.99
GeForce GTX 780M	3,712	189.99*
Radeon Pro 560X	3,678	NA
Quadro P620	3,662	165.96
GeForce MX450	3,649	NA
Radeon RX 560	3,633	129.99
Radeon HD 7970M	3,619	NA
Quadro M2000M	3,601	279.95*
GeForce GTX 680M KY_Bullet Edition	3,569	NA
GRID M6-8Q	3,568	NA
Quadro M1200	3,554	NA
Quadro K2200	3,537	123.18*
Radeon RX 560X	3,520	NA
Tesla C2050	3,515	269.99*
Quadro 7000	3,505	NA
GeForce GTX 960M	3,493	1,169.00*
Tesla M10	3,490	3,202.21*
Radeon Pro 560	3,475	NA
FirePro W8000	3,454	1,048.99*
Radeon Pro 460	3,453	NA
Radeon RX Vega M GL	3,432	NA
Tesla C2050 / C2070	3,428	NA
Quadro P600	3,424	241.04*
GeForce GTX 750	3,417	129.99*
Radeon R9 M470X	3,400	NA
GeForce GTX 870M	3,397	NA
Quadro K5000M	3,384	389.25*
Radeon HD8970M	3,369	NA
Radeon E8870PCle	3,368	NA
GeForce GTX 590	3,366	184.00*
GRID P40-2B	3,354	NA
GRID M10-1Q	3,351	NA
GeForce GTX 650 Ti BOOST	3,321	NA
Tesla C2070	3,275	NA
GeForce 770M	3,246	176.99*
GRID M10-4Q	3,224	NA
GeForce GTX 470	3,219	522.01*
Radeon R9 M290X	3,207	NA
GeForce GTX 860M	3,192	NA
Radeon R9 M380	3,189	NA
GRID K520	3,177	749.95*
GRID K2	3,176	4,222.31
RadeonT RX 5500M	3,166	NA
FirePro V7000	3,162	NA

Tesla C2075	3,118	340.50*
Radeon R7 260X	3,115	132.28*
 Video Card ▼		
Radeon Pro 455	3,113	449.00*
Intel G35 Express	3,090	NA
Radeon HD 7790	3,090	180.32*
Quadro K5100M	3,082	285.99*
Radeon R7 360	3,077	125.00*
GeForce GTX 560 Ti	3,058	81.60*
Quadro M1000M	3,048	85.99*
Radeon R9 360	3,032	519.00*
Radeon R9 260	3,018	NA
FirePro W5100	2,966	279.13*
FirePro W5000	2,959	169.89*
GeForce MX350	2,952	NA
GRID K260Q	2,941	NA
Radeon HD 6990	2,933	159.99*
Quadro M620	2,929	NA
Radeon HD 6970	2,899	59.99*
P106-090	2,898	NA
Radeon R7 260	2,892	89.99*
Quadro K1200	2,875	190.89*
Intel Iris Xe	2,861	NA
Radeon Pro V340 MxGPU	2,853	NA
GeForce GTX 770M	2,841	138.00*
Radeon Pro W5500M	2,822	NA
FirePro 3D V9800	2,812	2,499.00*
Radeon RX 550	2,773	88.99*
GeForce GTX 560	2,744	294.48*
FirePro W4300	2,734	239.99*
FirePro V9800	2,727	NA
Radeon Pro 450	2,723	NA
Radeon Ryzen 7 PRO 4750G with	2,714	NA
Quadro 6000	2,707	99.99
Quadro K4000	2,705	175.99*
GRID T4-1Q	2,703	NA
Barco MXRT 5500	2,702	NA
GeForce MX330	2,675	NA
Radeon HD 6950	2,674	148.32*
FirePro M6100 FireGL V	2,656	NA
GRID M10-2Q	2,654	NA
GeForce GTX 950M	2,651	567.00*
FirePro R5000	2,647	109.99*
GeForce GTX 465	2,643	263.28*
MONSTER GeForce GTX 675M	2,637	NA
Radeon Ryzen 7 PRO 4750GE with	2,626	NA
GeForce GT 1030	2,620	84.99

Intel UHD P630	2,602	NA
GeForce GTX 850M	2,591	NA
 Video Card ▼		
GeForce MX250	2,568	NA
Radeon Pro WX 3200	2,560	199.99
GeForce GTX 650 Ti	2,546	184.32*
Radeon HD 6850 X2	2,534	NA
FireStream 9370	2,528	NA
N18E-Q1	2,525	NA
Quadro K4100M	2,521	198.02*
Radeon Ryzen 7 4700GE with	2,496	NA
Ryzen 5 Pro 4650G with Radeon Graphics	2,452	NA
FirePro 3D V8800	2,438	424.99*
Radeon R9 M470	2,435	NA
GeForce GTX 950A	2,432	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
Ryzen 7 4800U with Radeon Graphics	2,395	NA
Ryzen 7 4800H with Radeon Graphics	2,371	NA
Ryzen 7 Pro 4750G with Radeon Graphics	2,367	NA
GeForce MX150	2,365	NA
GRID K280Q	2,363	NA
Radeon HD 8950	2,348	NA
Ryzen 5 4600G with Radeon Graphics	2,338	NA
Radeon Ryzen 5 PRO 4650G with	2,333	NA
Ryzen 7 Extreme Edition	2,332	NA
Ryzen 3 PRO 4350GE with Radeon Graphics	2,323	NA
GRID M10-1B	2,310	NA
Quadro K3100M	2,308	399.95*
Radeon Pro WX 4130	2,304	NA
FirePro V7900	2,294	144.04*
Radeon Ryzen 7 4800U with	2,290	NA
GeForce GTX 460	2,280	169.71*
GeForce GTX 580M	2,279	248.68*
Radeon Ryzen 7 4700G with	2,274	NA
Radeon Ryzen 5 PRO 4400G with	2,271	NA
Radeon HD 6970M	2,270	215.99*
Radeon R7 250X	2,269	260.70*
Quadro K620	2,260	138.83*
Radeon HD 5870	2,259	289.00*
Ryzen 3 Pro 4350G with Radeon Graphics	2,240	NA
Ryzen 5 4600H with Radeon Graphics	2,232	NA
Radeon R9 M385	2,230	NA
GRID P100-1B	2,223	NA
Radeon HD 5970	2,220	329.99*

Radeon RX 550X	2,203	NA
Quadro P520	2,191	1,499.00*
 Video Card ▼		
Radeon Ryzen 5 PRO 4650GE with	2,188	NA
RadeonT R7 450	2,185	NA
Radeon HD 7770	2,184	145.32*
Ryzen 3 4300G with Radeon Graphics	2,182	NA
GeForce GTX 745	2,171	124.04*
Intel Iris Pro P580	2,169	NA
GRID K240Q	2,144	NA
Quadro M600M	2,142	102.99*
Radeon RX Vega 11	2,134	NA
Radeon TM R9 A360	2,105	NA
Radeon Ryzen 5 4600G with	2,104	NA
FirePro M5100	2,103	NA
GeForce GTX 460 v2	2,091	199.99*
GeForce GTX 560 SE	2,089	89.99*
Ryzen 7 PRO 4750U with Radeon Graphics	2,076	NA
GRID M6-1Q	2,069	NA
Quadro 5000M	2,060	NA
FirePro M6100	2,054	NA
GeForce GTX 480M	2,051	NA
Ryzen 7 4700U with Radeon Graphics	2,042	NA
Radeon Ryzen 3 PRO 4350GE with	2,040	NA
Intel Iris Pro 580	2,035	NA
Quadro M520	2,030	NA
FirePro V7800	2,030	NA
GeForce GTX 675M	2,025	NA
Radeon Ryzen 7 4700U with	2,023	NA
Quadro 5000	2,008	2,313.99
Ryzen 5 PRO 4500U with Radeon Graphics	2,008	NA
GeForce GT 645	2,006	NA
Radeon Ryzen 7 4800H with	2,005	NA
GeForce 945M	2,004	NA
Quadro 5010M	2,001	235.95*
GeForce GTX 570M	1,998	NA
Ryzen 5 4600U with Radeon Graphics	1,993	NA
Radeon Ryzen 7 PRO 4750U with	1,990	NA
Quadro K4000M	1,989	599.99*
Radeon HD 6850	1,989	165.32*
Radeon R7 + R7 350 Dual	1,982	NA
GeForce GTX 675MX	1,972	NA
Radeon HD 5850	1,972	79.99*
Radeon R9 350	1,964	103.85*
Radeon R7 + HD 7700 Dual	1,962	NA
Radeon R7 450	1,962	52.49*
GeForce GTX 460 SE	1,961	159.99*

GeForce GTX 470M	1,950	NA
GeForce MX230	1,942	NA
 Video Card ▼		
Radeon Ryzen 5 4600H with	1,931	NA
GeForce MX130	1,928	NA
Radeon Ryzen 5 4600U with	1,924	NA
Radeon RX 570X	1,923	NA
GeForce GTX 645	1,921	NA
GeForce GTX 670MX	1,920	NA
Radeon HD 7560D + 7700 Dual	1,919	NA
Matrox C680 PCIe x16	1,904	NA
Radeon HD 7700-serie	1,899	NA
Radeon HD 8670D + HD 7700 Dual	1,892	NA
Intel UHD	1,876	NA
Intel Iris Plus	1,869	NA
FirePro 3D V7800	1,867	599.99*
Radeon Vega 11	1,861	NA
GeForce 945A	1,852	NA
Radeon R9 M375X	1,850	NA
Radeon RX 540	1,845	NA
Ryzen 5 4500U with Radeon Graphics	1,841	NA
FirePro M5100 FireGL V	1,839	NA
GRID M60-0B	1,838	NA
Radeon HD 8570D + HD 7700 Dual	1,835	NA
MxGPU	1,826	NA
FirePro M6000	1,820	NA
RadeonT 540X	1,817	NA
Matrox C900 PCIe x16	1,812	NA
RadeonT RX 560X	1,810	NA
GeForce GTX 555	1,807	NA
GeForce GTX 670M	1,807	NA
Radeon Pro WX 4150	1,806	NA
Intel Iris Plus 655	1,802	NA
Radeon R9 M275X	1,802	NA
Radeon HD 8870M / R9 M270X / M370X	1,800	NA
Radeon Ryzen 3 PRO 4200G with	1,799	NA
Radeon Ryzen 5 4500U with	1,798	NA
Intel Iris 650	1,795	NA
Radeon HD 8670D + 7700 Dual	1,789	NA
Radeon HD 6900M	1,787	NA
Radeon Ryzen 3 PRO 4200GE with	1,784	NA
Ryzen 5 PRO 4650U with Radeon Graphics	1,780	NA
Radeon R9 M385X	1,760	NA
GeForce GTX 650	1,758	89.35*
Radeon HD 5830	1,754	159.99*
Intel Iris Plus 645	1,748	NA
Radeon R9 M360	1,733	NA

Quadro P500	1,719	NA
FirePro W5170M	1,703	NA
Video Card ▼		
GeForce GTX 760M	1,685	NA
Radeon RX Vega 11 Processor	1,685	NA
Radeon RX Vega11	1,673	NA
FirePro M4000 Mobility Pro	1,667	NA
Radeon Pro WX 2100	1,662	NA
FirePro M4000	1,658	NA
Radeon Vega 9	1,658	NA
Radeon HD 7750	1,654	144.99*
Quadro P400	1,652	122.31
Radeon HD HD7850M	1,652	NA
Radeon Ryzen 5 PRO 4650U with	1,648	NA
Radeon HD 8870M	1,638	NA
Quadro K2000D	1,620	416.51*
GeForce GT 755M	1,619	NA
Ryzen 7 2700U with Radeon Vega	1,617	NA
Intel Iris Plus 650	1,610	NA
Seria Radeon HD 7700	1,604	NA
Quadro K3000M	1,604	155.00*
FirePro W6150M	1,586	NA
Radeon RX Vega 8	1,586	NA
Radeon Vega 8	1,584	126.86*
Radeon HD 6790	1,581	64.99*
GeForce GTX 550 Ti	1,580	131.28*
Ryzen 3 PRO 4450U with Radeon Graphics	1,578	NA
Radeon E8860	1,577	NA
Radeon R9 M275X / M375	1,575	NA
Quadro K2000	1,572	120.00*
GeForce GTX 285	1,556	179.99*
Radeon HD 7500D * HD 6670 Dual	1,555	NA
Radeon Vega 10	1,548	NA

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