



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.

CPUS

High End
 High Mid Range
 Low Mid Range
 Low End

Best Value (On Market)
 Best Value XY Scatter
 Best Value (All time)

New Desktop
 New Laptop

Single Thread
 Systems with Multiple CPUs
 Overclocked
 Power Performance
 CPU Mark by Socket Type
 Cross-Platform CPU Performance

CPU Mega List
 Search Model

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark			
Laptop & Portable CPU Performance			
Updated 14th of September 2021			
CPU	CPU Mark		Price (USD)
Intel Xeon W-11955M @ 2.60GHz		24,138	\$623.00*
AMD Ryzen 9 5900HX		23,328	NA
Intel Core i9-11950H @ 2.60GHz		23,256	\$556.00*
Intel Core i9-11980HK @ 2.60GHz		23,140	\$583.00*
Intel Core i9-11900H @ 2.50GHz		22,942	\$546.00*
AMD Ryzen 9 5980HS		22,691	NA
AMD Ryzen 9 5900HS		22,670	NA
Intel Core i7-11850H @ 2.50GHz		22,065	\$395.00*
Intel Core i7-11800H @ 2.30GHz		21,818	\$395.00*
AMD Ryzen 7 5800H		21,698	NA
AMD Ryzen 7 5800HS		21,235	NA
AMD Ryzen 9 4900HS		19,604	NA
AMD Ryzen 7 PRO 5850U		19,461	NA
AMD Ryzen 7 5800U		19,331	NA
AMD Ryzen 7 4800H		19,175	NA
AMD Ryzen 9 4900H		19,002	NA
AMD Ryzen 7 4800HS		18,955	NA
Intel Xeon W-11855M @ 3.20GHz		18,839	\$450.00*
AMD Ryzen 7 Extreme Edition		18,187	NA
AMD Ryzen 5 5600H		17,582	NA
Intel Core i5-11500H @ 2.90GHz		17,527	\$250.00*
AMD Ryzen 7 4800U		17,256	NA

Compare0	AMD Ryzen 5 PRO 5650U		16,573	NA

CPU Benchmarks

- Most Benchmarked
- AMD vs Intel Market Share
- Year on Year Performance

Intel Core i7-10700TE @ 2.00GHz		16,332	\$330.00*
Intel Xeon W-10885M @ 2.40GHz		16,133	\$623.00*
Intel Core i9-10885H @ 2.40GHz		15,926	\$556.00*
AMD Ryzen 5 5600U		15,910	NA
Intel Xeon E-2286M @ 2.40GHz		15,739	\$1,373.18*
Intel Core i7-10875H @ 2.30GHz		15,663	\$450.00*
AMD Ryzen 7 PRO 4750U		15,548	NA
Intel Core i7-10870H @ 2.20GHz		15,417	\$417.00*
Intel Core i9-10880H @ 2.30GHz		15,390	NA
Apple M1 8 Core 3200 MHz		15,166	NA
Intel Core i5-11400H @ 2.70GHz		15,164	\$250.00*
Intel Core i9-9980HK @ 2.40GHz		14,948	\$583.00*
AMD Ryzen 5 4600H		14,796	NA
AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,673	NA
Intel Core i7-1195G7 @ 2.90GHz		14,179	\$426.00*
Intel Core i9-9880H @ 2.30GHz		14,078	\$556.00*
AMD Ryzen 5 4600U		13,754	NA
AMD Ryzen 7 4700U		13,733	NA
AMD Ryzen 5 5500U		13,328	NA
Intel Xeon W-10855M @ 2.80GHz		12,981	\$450.00*
AMD Ryzen 5 PRO 4650U		12,978	NA
Intel Core i7-8700B @ 3.20GHz		12,709	\$303.00*
Intel Core i7-10750H @ 2.60GHz		12,519	NA
Intel Core i7-11370H @ 3.30GHz		12,397	\$426.00*
Intel Core i7-11375H @ 3.30GHz		12,367	\$482.00*
Intel Core i7-10850H @ 2.70GHz		12,176	\$395.00*
AMD Ryzen 3 5400U		12,110	NA
Intel Core i5-10500H @ 2.50GHz		12,100	\$250.00*
Intel Xeon E-2276M @ 2.80GHz		12,082	\$450.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
AMD Ryzen 3 PRO 5450U		12,047	NA
Intel Core i7-1185G7E @ 2.80GHz		11,645	\$431.00*
Intel Core i5-11260H @ 2.60GHz		11,623	\$250.00*
Intel Core i7-9850H @ 2.60GHz		11,616	\$1,305.76*
Intel Core i7-9750HF @ 2.60GHz		11,591	\$395.00*
Intel Core i5-11300H @ 3.10GHz		11,405	\$309.00*
Intel Core i7-9750H @ 2.60GHz		11,286	\$960.00*
AMD Ryzen 5 4500U		11,209	NA
AMD Ryzen 3 PRO 4200GE		11,006	NA
Intel Core i7-1160G7 @ 1.20GHz		10,981	\$426.00*
Intel Core i7-1185G7 @ 3.00GHz		10,959	\$426.00*
Intel Core i5-1145G7 @ 2.60GHz		10,830	NA
Intel Core i7-9700TE @ 1.80GHz		10,722	\$323.00*
Intel Core i7-1165G7 @ 2.80GHz		10,659	\$426.00*
Intel Core i5-1130G7 @ 1.10GHz		10,522	\$309.00*

	Intel Core i7-1068NG7 @ 2.30GHz		10,364	\$426.00*	
	AMD Ryzen 3 PRO 4450U		10,099	NA	

 CPU Benchmarks

	Intel Core i7-1068NG7 @ 2.30GHz		10,364	\$426.00*	
	AMD Ryzen 3 5300U		10,033	NA	
	Intel Core i5-1038NG7 @ 2.00GHz		9,775	\$320.00*	
	Intel Core i5-9400F @ 2.90GHz		9,552	\$167.87	
	Intel Core i5-8500B @ 3.00GHz		9,480	\$192.00*	
	Intel Core i3-1125G4 @ 2.00GHz		9,447	NA	
	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		8,923	\$443.00*	
	Intel Core i5-10400H @ 2.60GHz		8,885	\$250.00*	
	Intel Core i7-1065G7 @ 1.30GHz		8,835	\$426.00*	
	Intel Core i5-10300H @ 2.50GHz		8,774	\$250.00*	
	Intel Core i7-8569U @ 2.80GHz		8,487	\$431.00*	
	Intel Core i5-10200H @ 2.40GHz		8,438	\$250.00*	
	Intel Core i5-1035G7 @ 1.20GHz		8,420	\$320.00*	
	AMD Ryzen 7 3750H		8,356	NA	
	Intel Core i5-1035G4 @ 1.10GHz		8,291	\$309.00*	
	Intel Core i5-9400H @ 2.50GHz		8,267	\$250.00*	
	Intel Core i7-8557U @ 1.70GHz		8,195	\$431.00*	
	AMD Ryzen 3 4300U		8,069	NA	
	AMD Ryzen 5 3550H		8,068	NA	
	Intel Core i5-8269U @ 2.60GHz		8,055	\$320.00*	
	Intel Core i5-8279U @ 2.40GHz		7,945	\$320.00*	
	AMD Ryzen 5 3500U		7,933	NA	
	Intel Core i7-8709G @ 3.10GHz		7,921	NA	
	Intel Core i5-1035G1 @ 1.00GHz		7,870	\$297.00*	
	Intel Core i5-8260U @ 1.60GHz		7,869	\$439.99*	
	Intel Core i5-9300H @ 2.40GHz		7,843	\$250.00*	
	AMD Ryzen 5 3580U		7,797	NA	
	Intel Core i5-8257U @ 1.40GHz		7,673	\$320.00*	
	AMD Ryzen 7 2800H		7,656	NA	
	Intel Core i5-9300HF @ 2.40GHz		7,646	\$250.00*	
	AMD Ryzen 5 2600H		7,537	NA	
	Intel Core i7-7820EQ @ 3.00GHz		7,453	\$378.00*	
	Intel Core i3-10100T @ 3.00GHz		7,434	\$122.00*	
	AMD Ryzen 7 3780U		7,386	NA	
	AMD Ryzen 7 3700U		7,360	NA	
	Intel Core i7-1060NG7 @ 1.20GHz		7,316	NA	
	AMD Ryzen 7 PRO 3700U		7,311	NA	
	Intel Core i7-10610U @ 1.80GHz		7,116	\$409.00*	
	AMD Ryzen 3 PRO 3200GE		7,071	NA	
	Intel Core i7-5850EQ @ 2.70GHz		7,036	\$435.00*	
	AMD Ryzen 5 3450U		6,922	NA	
	AMD Ryzen 5 PRO 3500U		6,907	NA	
	Intel Core i7-10510U @ 1.80GHz		6,907	\$409.00*	
	AMD Ryzen Embedded V1605B		6,849	NA	
	Intel Core i5-10210U @ 1.60GHz		6,751	\$702.62*	

	Intel Core i5-10310U @ 1.70GHz		6,704	\$297.00*	
	Intel Core i7-8665UE @ 1.70GHz		6,587	\$409.00*	

 CPU Benchmarks

	Intel Core i5-8365U @ 1.60GHz		6,401	\$539.07*	
	Intel Core i3-8100B @ 3.60GHz		6,233	\$133.00*	
	Intel Core i7-8565UC @ 1.80GHz		6,187	NA	
	Intel Core i5-1030NG7 @ 1.10GHz		6,143	NA	
	Intel Core i5-8265U @ 1.60GHz		6,123	\$499.88*	
	AMD Ryzen 3 PRO 3300U		5,991	NA	
	Intel Core i5-8265UC @ 1.60GHz		5,988	NA	
	AMD Ryzen 3 3350U		5,939	NA	
	AMD Ryzen 3 3300U		5,875	NA	
	Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*	
	Intel Pentium Gold 7505 @ 2.00GHz		5,421	NA	
	Intel Core i5-8365UE @ 1.60GHz		5,408	\$297.00*	
	Intel Core i7-10510Y @ 1.20GHz		5,289	\$403.00*	
	Intel Core i3-1005G1 @ 1.20GHz		5,256	\$281.00*	
	Intel Core i5-10210Y @ 1.00GHz		4,836	NA	
	Intel Core i5-7442EQ @ 2.10GHz		4,834	\$250.00*	
	Intel Pentium 6805 @ 1.10GHz		4,735	\$161.00*	
	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 i3-9100TE @ 2.20GHz		4,501	\$122.00*	
	AMD Athlon Gold 3150U		4,385	NA	
	Intel Core i3-8121U @ 2.20GHz		4,369	\$290.00*	
	Intel Core i3-8109U @ 3.00GHz		4,328	\$499.99*	
	Intel Core i3-8145UE @ 2.20GHz		4,133	\$281.00*	
	AMD Ryzen 3 3250U		4,117	NA	
	Intel Core i3-10110U @ 2.10GHz		4,060	\$434.17*	
	Intel Core i3-1000NG4 @ 1.10GHz		4,051	NA	
	AMD Athlon 300U		4,006	NA	
	Microsoft ARM SQ1 @ 3.0 GHz		3,970	NA	
	AMD Ryzen Embedded R1505G		3,966	NA	
	AMD Ryzen 3 3200U		3,958	NA	
	AMD Ryzen Embedded V1202B		3,823	NA	
	Intel Core i3-8145U @ 2.10GHz		3,823	\$281.00*	
	AMD A8-7680		3,568	\$50.08*	
	Intel Core i3-7167U @ 2.80GHz		3,489	NA	
	Intel Core i3-10110Y @ 1.00GHz		3,444	\$287.00*	
	Intel Core i5-L16G7 @ 1.40GHz		3,418	\$281.00*	
	AMD Ryzen Embedded R1305G		3,329	NA	
	AMD Athlon Silver 3050U		3,151	NA	
	Intel Core m3-8100Y @ 1.10GHz		3,005	\$281.00*	
	Intel Core i5-8210Y @ 1.60GHz		2,894	NA	
	Intel Core i7-8500Y @ 1.50GHz		2,888	\$393.00*	
	AMD Athlon Silver 3050e		2,856	NA	
	AMD A6-9400		2,717	NA	
	AMD 3015e		2,678	NA	

	Intel Pentium Silver N5030 @ 1.10GHz		2,633	NA
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 CPU Benchmarks

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Intel Core i3-7102E @ 2.10GHz		2,521	\$225.00*
Intel Celeron N4120 @ 1.10GHz		2,508	NA
Intel Pentium 6405U @ 2.40GHz		2,360	\$161.00*
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
Intel Core i5-8200Y @ 1.30GHz		2,308	\$291.00*
Intel Pentium 5405U @ 2.30GHz		2,296	\$161.00*
Intel Celeron 6305 @ 1.80GHz		2,259	NA
Intel Pentium 4417U @ 2.30GHz		2,250	\$161.00*
Intel Celeron 4305UE @ 2.00GHz		1,950	NA
AMD GX-420MC SOC		1,796	NA
Intel Pentium 4425Y @ 1.70GHz		1,688	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,611	NA
Intel Celeron N4020 @ 1.10GHz		1,595	NA
Intel Celeron 3867U @ 1.80GHz		1,470	\$107.00*
Intel Celeron 5205U @ 1.90GHz		1,417	\$107.00*
Intel Celeron 4205U @ 1.80GHz		1,311	\$107.00*
Intel Celeron 1020M @ 2.10GHz		1,275	NA
Intel Pentium A1020 @ 2.41GHz		1,265	NA
AMD R-272F APU		1,215	NA
AMD A4-9125		1,212	NA
AMD A6-9220C		1,163	NA
AMD PRO A4-4350B		1,093	NA
Intel Celeron 2002E @ 1.50GHz		1,091	\$86.00*
AMD A4-9120e		916	NA
AMD A4-9120C		811	NA
AMD G-T40R		120	NA

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