

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

PassMark - CPU Mark

Laptop & Portable CPU Performance



Updated 19th of July 2022

CPU	CPU Mark	Price (USD)
Intel Core i9-12950HX	39,136	\$590.00*
Intel Core i7-12800HX	36,511	\$457.00*
Intel Core i7-12850HX	31,111	\$428.00*
Intel Core i9-12900HX	31,048	\$606.00*
Intel Core i9-12900H	29,435	\$617.00*
Intel Core i9-12900HK	29,187	\$635.00*
Intel Core i7-12700H	27,211	\$457.00*
Intel Core i5-12600HX	24,689	\$284.00*
Intel Core i7-12650H	24,600	\$457.00*
AMD Ryzen 9 6900HX	24,589	NA



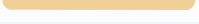
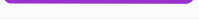
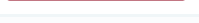
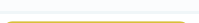


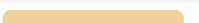




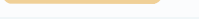
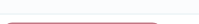
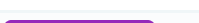










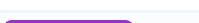
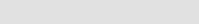
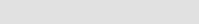
AMD Ryzen 7 PRO 6850H		24,325	NA
AMD Ryzen 7 6800HS		24,067	NA

CPU Benchmarks

AMD Ryzen 7 PRO 6850U		23,725	NA
Intel Core i9-11980HK @ 2.60GHz		23,598	\$583.00*
AMD Ryzen 7 6800H		23,496	NA
Intel Xeon W-11955M @ 2.60GHz		23,403	\$623.00*
AMD Ryzen 9 PRO 6950HS		23,392	NA
AMD Ryzen 9 5980HX		23,319	NA
AMD Ryzen 9 5900HX		23,090	NA
Intel Core i5-12500H		22,759	\$311.00*
Intel Core i9-11950H @ 2.60GHz		22,404	\$556.00*
Apple M1 Max 10 Core 3200 MHz		22,371	NA
AMD Ryzen 9 5900HS		22,183	NA
Apple M1 Pro 10 Core 3200 MHz		22,151	NA
Intel Core i5-1250P		22,148	NA
AMD Ryzen 9 5980HS		21,491	NA
AMD Ryzen 7 5800H		21,382	NA
Intel Core i7-11800H @ 2.30GHz		21,232	\$395.00*
Intel Core i9-11900H @ 2.50GHz		21,191	\$546.00*
Intel Core i7-11850H @ 2.50GHz		21,190	\$395.00*
Intel Core i5-12600H		21,000	\$311.00*
AMD Ryzen 9 5900H		20,960	NA
AMD Ryzen 7 5800HS Creator Edition		20,948	NA
AMD Ryzen 7 6800U		20,795	NA
AMD Ryzen 7 5800HS		20,684	NA
Intel Core i7-1280P		19,502	\$482.00*
AMD Ryzen 9 4900HS		19,360	NA
AMD Ryzen 9 4900H		19,338	NA
AMD Ryzen 7 PRO 6850HS		19,069	NA
Intel Core i7-1270P		19,045	NA
AMD Ryzen 7 4800H		18,994	NA
AMD Ryzen 7 5800U		18,913	NA
AMD Ryzen 7 4800HS		18,826	NA
Intel Xeon W-11855M @ 3.20GHz		18,810	\$450.00*
Intel Core i5-12450H		18,622	\$311.00*
AMD Ryzen 7 5825U		18,465	NA
Intel Core i3-1220P		18,329	\$281.00*
Intel Core i5-1240P		18,222	NA
AMD Ryzen 7 Extreme Edition		18,209	NA
AMD Ryzen 5 PRO 6650U		17,622	NA
AMD Ryzen 7 PRO 5850U		17,473	NA
Apple M1 Pro 8 Core 3200 MHz		17,358	NA
AMD Ryzen 5 5600H		17,186	NA
Intel Core i7-1260P		17,162	NA
AMD Ryzen 5 5560U		17,084	NA
AMD Ryzen 7 4800U		16,992	NA

Intel Core i5-11500H @ 2.90GHz		16,291	\$250.00*
Intel Core i7-10700F @ 2.90GHz		16,257	\$330.00*








































CPU Benchmarks





Intel Core i9-10980HK @ 2.40GHz		16,076	\$583.00*
Intel Core i5-11400H @ 2.70GHz		16,035	\$250.00*
AMD Ryzen 7 5700U		15,972	NA
AMD Ryzen 7 4850U Mobile		15,920	NA
Intel Core i7-11600H @ 2.90GHz		15,907	\$395.00*
Intel Core i9-10885H @ 2.40GHz		15,641	\$556.00*
AMD Ryzen 7 PRO 4750U		15,467	NA
AMD Ryzen 5 5600U		15,414	NA
Intel Core i7-10875H @ 2.30GHz		15,394	\$450.00*
AMD Ryzen 5 PRO 5650U		15,232	NA
Apple M2 8 Core 3500 MHz		15,192	NA
Intel Core i5-11260H @ 2.60GHz		15,074	\$250.00*
Intel Core i7-10870H @ 2.20GHz		14,943	\$417.00*
AMD Ryzen 5 PRO 4400GE		14,795	NA
AMD Ryzen 5 4600HS		14,735	NA
Intel Core i9-10880H @ 2.30GHz		14,735	NA
AMD Ryzen 5 4600H		14,707	NA
AMD Ryzen 5 5625U		14,598	NA
Apple M1 8 Core 3200 MHz		14,568	NA
Intel Core i5-1235U		14,123	\$309.00*
AMD Ryzen 7 4700U		13,613	NA
AMD Ryzen 5 4600U		13,438	NA
AMD Ryzen 5 PRO 5675U		13,347	NA
Intel Core i7-1255U		13,302	\$426.00*
AMD Ryzen 5 5500U		13,182	NA
Intel Core i7-1265U		13,070	\$426.00*
Intel Xeon W-10855M @ 2.80GHz		12,921	\$450.00*
AMD Ryzen 5 PRO 4650U		12,843	NA
Intel Core i3-1215U		12,550	NA
Intel Core i7-10750H @ 2.60GHz		12,302	NA
Intel Core i7-11375H @ 3.30GHz		12,258	\$482.00*
Intel Core i3-1210U		12,130	NA
Intel Core i7-10850H @ 2.70GHz		12,120	\$395.00*
AMD Ryzen 5 PRO 4500U		12,049	NA
AMD Ryzen 3 PRO 5475U		12,012	NA
Intel Core i7-11370H @ 3.30GHz		11,975	\$426.00*
AMD Ryzen 3 5400U		11,871	NA
Intel Core i5-10500H @ 2.50GHz		11,600	\$250.00*
AMD Ryzen 3 PRO 5450U		11,559	NA
Intel Core i7-9750HF @ 2.60GHz		11,159	\$395.00*
Intel Core i7-1185G7E @ 2.80GHz		11,114	\$431.00*
AMD Ryzen 5 4500U		11,082	NA
Intel Core i5-11300H @ 3.10GHz		11,027	\$309.00*
AMD Ryzen 3 PRO 4200GE		10,930	NA
Intel Core i7-1185G7 @ 2.80GHz		10,881	\$431.00*

⌵	Intel Core i7-9700TE @ 1.80GHz	<div></div>	10,826	\$323.00*	
⌵	Intel Core i5-11320H @ 3.20GHz	<div></div>	10,656	\$309.00*	
<div> <div></div> <div> <div></div> <div>CPU Benchmarks</div> <div></div> </div> </div>					
⌵	Intel Core i7-1165G7 @ 2.80GHz	<div></div>	10,508	\$426.00*	
⌵	Intel Core i5-1145G7 @ 2.60GHz	<div></div>	10,290	NA	
⌵	AMD Ryzen 3 5425U	<div></div>	10,203	NA	
⌵	Intel Core i5-1155G7 @ 2.50GHz	<div></div>	10,194	\$309.00*	
⌵	AMD Ryzen 3 PRO 4450U	<div></div>	10,169	NA	
⌵	Intel Core i5-1135G7 @ 2.40GHz	<div></div>	10,088	\$309.00*	
⌵	Intel Core i7-1068NG7 @ 2.30GHz	<div></div>	10,057	\$426.00*	
⌵	Intel Core i7-10710U @ 1.10GHz	<div></div>	10,017	\$644.99*	
⌵	AMD Ryzen 3 5300U	<div></div>	9,994	NA	
⌵	Intel Core i5-10500TE @ 2.30GHz	<div></div>	9,960	\$195.00*	
⌵	Intel Core i3-1125G4 @ 2.00GHz	<div></div>	9,912	NA	
⌵	Intel Core i5-1230U	<div></div>	9,896	\$309.00*	
⌵	Intel Core i5-1038NG7 @ 2.00GHz	<div></div>	9,629	\$320.00*	
⌵	Intel Core i7-1160G7 @ 1.20GHz	<div></div>	9,531	\$426.00*	
⌵	Intel Core i5-9500TE @ 2.20GHz	<div></div>	9,212	\$192.00*	
⌵	Intel Core i7-9850HL @ 1.90GHz	<div></div>	9,112	\$395.00*	
⌵	Intel Core i5-1130G7 @ 1.10GHz	<div></div>	9,040	\$309.00*	
⌵	Intel Core i5-10400H @ 2.60GHz	<div></div>	8,913	\$250.00*	
⌵	Intel Core i7-1180G7 @ 1.30GHz	<div></div>	8,837	\$426.00*	
⌵	Intel Core i5-10300H @ 2.50GHz	<div></div>	8,656	\$250.00*	
⌵	Intel Core i7-8569U @ 2.80GHz	<div></div>	8,636	\$431.00*	
⌵	Intel Core i5-1035G7 @ 1.20GHz	<div></div>	8,497	\$320.00*	
⌵	Intel Core i5-10200H @ 2.40GHz	<div></div>	8,391	\$250.00*	
⌵	Intel Core i5-9400H @ 2.50GHz	<div></div>	8,271	\$250.00*	
⌵	Intel Core i7-8557U @ 1.70GHz	<div></div>	8,225	\$431.00*	
⌵	Intel Core i5-1035G4 @ 1.10GHz	<div></div>	8,199	\$309.00*	
⌵	Intel Core i5-8269U @ 2.60GHz	<div></div>	8,055	\$320.00*	
⌵	Intel Core i7-10810U @ 1.10GHz	<div></div>	8,012	\$443.00*	
⌵	Intel Core i5-8260U @ 1.60GHz	<div></div>	7,854	\$439.99*	
⌵	Intel Core i5-8279U @ 2.40GHz	<div></div>	7,801	\$320.00*	
⌵	Intel Core i5-8257U @ 1.40GHz	<div></div>	7,682	\$320.00*	
⌵	AMD Ryzen 7 3780U	<div></div>	7,651	NA	
⌵	Intel Core i5-1035G1 @ 1.00GHz	<div></div>	7,628	\$297.00*	
⌵	Intel Core i5-9300HF @ 2.40GHz	<div></div>	7,617	\$250.00*	
⌵	AMD Ryzen 3 4300U	<div></div>	7,573	NA	
⌵	Intel Core i3-10100T @ 3.00GHz	<div></div>	7,407	\$122.00*	
⌵	AMD Ryzen 5 3580U	<div></div>	7,383	NA	
⌵	AMD Ryzen 7 3700C	<div></div>	7,145	NA	
⌵	Intel Core i7-10610U @ 1.80GHz	<div></div>	7,013	\$409.00*	
⌵	Intel Core i7-1060NG7 @ 1.20GHz	<div></div>	6,971	NA	
⌵	AMD Ryzen 5 3450U	<div></div>	6,790	NA	
⌵	Intel Core i7-10510U @ 1.80GHz	<div></div>	6,790	\$409.00*	
⌵	Intel Pentium Gold 8505	<div></div>	6,771	NA	
⌵	Intel Core i5-10310U @ 1.70GHz	<div></div>	6,557	\$297.00*	
⌵	Intel Core i5-10210U @ 1.60GHz	<div></div>	6,522	\$292.00*	

Intel Core i7-8565UC @ 1.80GHz		6,187	NA
Intel Core i5-1030NG7 @ 1.10GHz		6,106	NA

CPU Benchmarks ▼

AMD Ryzen 3 3300U		5,778	NA
Intel Core i5-7440EQ @ 2.90GHz		5,711	\$250.00*
Intel Core i5-8365UE @ 1.60GHz		5,555	\$297.00*
Intel Pentium Gold 7505 @ 2.00GHz		5,303	NA
AMD Ryzen 5 3500C		5,214	NA
Intel Core i3-1005G1 @ 1.20GHz		5,097	\$281.00*
Intel Core i7-8665UE @ 1.70GHz		5,017	\$409.00*
Intel Core i7-10510Y @ 1.20GHz		5,016	\$403.00*
Intel Core i5-10210Y @ 1.00GHz		4,964	NA
Microsoft ARM SQ1 @ 3.0 GHz		4,868	NA
Intel Core i5-6442EQ @ 1.90GHz		4,598	\$250.00*
Intel Pentium Silver N6005 @ 2.00GHz		4,589	NA
AMD Athlon Silver 3050GE		4,545	NA
Intel Core i3-9100TE @ 2.20GHz		4,501	\$122.00*
Intel Pentium 6805 @ 1.10GHz		4,394	\$161.00*
Intel Core i5-6350HQ @ 2.30GHz		4,255	\$306.00*
Intel Core i3-8140U @ 2.10GHz		4,227	NA
Intel Core i3-8145UE @ 2.20GHz		4,087	\$281.00*
AMD Athlon Gold 3150U		4,011	NA
Intel Core i3-10110U @ 2.10GHz		3,982	\$434.17*
AMD Ryzen 3 3250U		3,968	NA
Intel Core i3-1000NG4 @ 1.10GHz		3,831	NA
Intel Core i5-L16G7 @ 1.40GHz		3,421	\$281.00*
Intel Pentium Silver N5020 @ 1.10GHz		3,404	NA
Intel Celeron N5100 @ 1.10GHz		3,287	NA
Intel Core i3-10110Y @ 1.00GHz		3,278	\$287.00*
AMD Ryzen Embedded R1305G		3,122	NA
AMD Athlon Silver 3050U		3,046	NA
AMD Athlon Silver 3050e		2,955	NA
AMD Ryzen 3 3250C		2,917	NA
AMD 3015e		2,720	NA
AMD A6-9400		2,717	NA
Intel Pentium Silver N5030 @ 1.10GHz		2,709	NA
Intel Celeron 7305		2,665	\$107.00*
Intel Celeron N4120 @ 1.10GHz		2,512	NA
AMD 3020e		2,474	NA
Intel Pentium 6405U @ 2.40GHz		2,370	\$161.00*
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
AMD Athlon Gold 3150C		2,310	NA
Intel Celeron 6305 @ 1.80GHz		2,157	NA
Intel Celeron 4305UE @ 2.00GHz		1,876	NA
Intel Pentium 4425Y @ 1.70GHz		1,721	\$161.00*
Intel Celeron N4000C @ 1.10GHz		1,611	NA
Intel Celeron N4020 @ 1.10GHz		1,569	NA
Intel Celeron N4020 @ 1.10GHz		1,533	NA

Intel Celeron 1020M @ 2.10GHz		1,275	NA
Intel Pentium A1020 @ 2.41GHz		1,265	NA
CPU Benchmarks			
AMD PRO A4-4350B		1,169	NA
AMD A4-9120C		869	NA

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