

# CPU Benchmarks

Over 1,000,000 CPUs Benchmarks

## 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.



- Home **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 19th of August 2020

CPU	CPU Mark	Price (USD)
AMD Ryzen 9 4900HS	19,809	NA
AMD Ryzen 9 4900H	19,687	NA
AMD Ryzen 7 4800H	19,366	NA
AMD Ryzen 7 4800HS	18,879	NA
AMD Ryzen 7 Extreme Edition	18,284	NA
AMD Ryzen 7 4800U	17,582	NA
Intel Xeon W-10885M @ 2.40GHz	17,094	\$623.00*
Intel Core i9-10980HK @ 2.40GHz	17,021	\$583.00*
Intel Core i9-10885H @ 2.40GHz	16,096	\$556.00*
Intel Core i7-10875H @ 2.30GHz	15,831	\$450.00*
AMD Ryzen 7 PRO 4750U	15,724	NA
Intel Xeon E-2286M @ 2.40GHz	15,685	\$623.00*
Intel Core i9-9980HK @ 2.40GHz	15,510	\$583.00*
AMD Ryzen 5 4600HS	14,999	NA
AMD Ryzen 5 4600H	14,998	NA
AMD Ryzen 5 4600U	14,402	NA
Intel Core i9-9880H @ 2.30GHz	14,158	\$556.00*
Intel Core i9-10880H @ 2.30GHz	13,973	NA
Intel Xeon W-10855M @ 2.80GHz	13,964	\$450.00*
AMD Ryzen 7 4700U	13,874	NA
AMD Ryzen 5 PRO 4650U	13,578	NA
Intel Core i7-1165G7 @ 2.80GHz	13,372	NA

Compare 0

**CPU Benchmarks**



Most Benchmarked

AMD vs Intel Market Share

Year on Year

Performance

Intel Core i7-10850H @ 2.70GHz		<b>12,982</b>	\$395.00*
AMD Ryzen 5 PRO 4500U		<b>12,049</b>	NA
Intel Core i7-8700B @ 3.20GHz		<b>11,992</b>	\$303.00*
Intel Core i7-9750HF @ 2.60GHz		<b>11,922</b>	\$395.00*
Intel Core i7-9850H @ 2.60GHz		<b>11,496</b>	\$395.00*
Intel Xeon E-2186M @ 2.90GHz		<b>11,436</b>	\$623.00*
Intel Core i7-9750H @ 2.60GHz		<b>11,423</b>	\$395.00*
AMD Ryzen 5 4500U		<b>11,205</b>	NA
Intel Xeon E-2176M @ 2.70GHz		<b>10,851</b>	\$450.00*
Intel Core i9-8950HK @ 2.90GHz		<b>10,768</b>	\$583.00*
Intel Core i7-1068NG7 @ 2.30GHz		<b>10,689</b>	\$426.00*
Intel Core i7-9700TE @ 1.80GHz		<b>10,680</b>	\$323.00*
Intel Core i7-8850H @ 2.60GHz		<b>10,533</b>	\$395.00*
Intel Core i7-8750H @ 2.20GHz		<b>10,219</b>	\$395.00*
Intel Core i5-1038NG7 @ 2.00GHz		<b>10,008</b>	\$320.00*
AMD Ryzen 3 PRO 4450U		<b>10,000</b>	NA
Intel Core i7-10710U @ 1.10GHz		<b>9,990</b>	\$598.95
Intel Core i5-9400F @ 2.90GHz		<b>9,598</b>	\$146.95
Intel Core i5-8500B @ 3.00GHz		<b>9,538</b>	\$192.00*
Intel Core i7-8569U @ 2.80GHz		<b>9,251</b>	\$431.00*
Intel Core i5-9500TE @ 2.20GHz		<b>9,212</b>	\$192.00*
Intel Core i7-9850HL @ 1.90GHz		<b>9,112</b>	\$395.00*
Intel Core i7-1065G7 @ 1.30GHz		<b>8,984</b>	NA
Intel Core i5-10400H @ 2.60GHz		<b>8,939</b>	\$250.00*
Intel Core i5-10300H @ 2.50GHz		<b>8,931</b>	\$250.00*
Intel Core i7-8559U @ 2.70GHz		<b>8,840</b>	\$561.99
Intel Core i7-8809G @ 3.10GHz		<b>8,752</b>	NA
Intel Core i5-1035G7 @ 1.20GHz		<b>8,614</b>	\$320.00*
AMD Ryzen 7 3750H		<b>8,462</b>	NA
Intel Core i5-8259U @ 2.30GHz		<b>8,380</b>	\$579.00
Intel Core i5-9400H @ 2.50GHz		<b>8,337</b>	\$250.00*
Intel Core i5-1035G4 @ 1.10GHz		<b>8,213</b>	\$309.00*
Intel Core i5-8257U @ 1.40GHz		<b>8,191</b>	\$320.00*
AMD Ryzen 5 3550H		<b>8,165</b>	NA
Intel Core i7-8706G @ 3.10GHz		<b>8,136</b>	NA
Intel Core i5-8400H @ 2.50GHz		<b>8,126</b>	\$250.00*
Intel Core i7-10810U @ 1.10GHz		<b>8,119</b>	\$443.00*
AMD Ryzen Embedded V1807B		<b>8,095</b>	NA
AMD Ryzen 5 3580U		<b>8,065</b>	NA
Intel Core i5-9300H @ 2.40GHz		<b>8,026</b>	\$250.00*
Intel Core i5-1035G1 @ 1.00GHz		<b>7,983</b>	\$297.00*
Intel Core i7-1185G7 @ 3.00GHz		<b>7,979</b>	NA
Intel Core i7-8709G @ 3.10GHz		<b>7,921</b>	NA
Intel Core i5-8279U @ 2.40GHz		<b>7,917</b>	\$320.00*
Intel Core i7-8705G @ 3.10GHz		<b>7,910</b>	\$1,548.81*
Intel Core i7-8557U @ 1.70GHz		<b>7,820</b>	\$431.00*
Intel Core i5-9300HF @ 2.40GHz		<b>7,782</b>	\$250.00*

Intel Core i5-8260U @ 1.60GHz		7,776	\$297.00*
AMD Ryzen 3 4300U		7,743	NA

## CPU Benchmarks

Intel Core i5-8300H @ 2.30GHz		7,584	\$250.00*
Intel Core i7-10610U @ 1.80GHz		7,554	\$409.00*
AMD Ryzen 5 2600H		7,537	NA
AMD Ryzen 7 3700U		7,434	NA
AMD Ryzen 7 PRO 2700U		7,378	NA
AMD Ryzen 7 PRO 3700U		7,352	NA
AMD Ryzen 3 PRO 3200GE		7,295	NA
Intel Core i5-8305G @ 2.80GHz		7,231	NA
AMD Ryzen 7 3780U		7,203	NA
AMD Ryzen 5 3500U		7,136	NA
Intel Core i7-10510U @ 1.80GHz		7,103	\$409.00*
AMD Ryzen 5 PRO 3500U		7,059	NA
Intel Core i7-7820EQ @ 3.00GHz		7,059	\$378.00*
Intel Core i7-5850EQ @ 2.70GHz		7,036	\$435.00*
AMD Ryzen Embedded V1605B		6,857	NA
Intel Core i3-8100B @ 3.60GHz		6,829	\$133.00*
Intel Core i5-10310U @ 1.70GHz		6,758	\$297.00*
Intel Core i7-8665U @ 1.90GHz		6,663	\$409.00*
AMD Ryzen 5 2500U		6,651	NA
Intel Core i7-8650U @ 1.90GHz		6,611	\$1,049.00*
Intel Xeon E3-1268L v5 @ 2.40GHz		6,600	\$456.54*
Intel Core i7-8565U @ 1.80GHz		6,592	NA
Intel Core i7-8665UE @ 1.70GHz		6,587	\$409.00*
AMD Ryzen 7 2700U		6,522	NA
Intel Core i5-10210U @ 1.60GHz		6,472	\$554.95
Intel Core i5-8365U @ 1.60GHz		6,447	\$649.99
Intel Core i5-8350U @ 1.70GHz		6,427	\$297.00*
AMD Ryzen 5 PRO 2500U		6,354	NA
Intel Core i5-8265U @ 1.60GHz		6,305	\$297.00*
Intel Core i7-1060NG7 @ 1.20GHz		6,234	NA
Intel Core i7-8565UC @ 1.80GHz		6,187	NA
AMD Ryzen 3 PRO 3300U		6,007	NA
Intel Core i5-8265UC @ 1.60GHz		5,988	NA
AMD Ryzen 3 PRO 2300U		5,873	NA
AMD Ryzen 3 3300U		5,743	NA
Intel Core i7-10510Y @ 1.20GHz		5,523	\$403.00*
Intel Core i3-1005G1 @ 1.20GHz		5,367	\$281.00*
Intel Core i5-1030NG7 @ 1.10GHz		5,331	NA
AMD Ryzen 3 2300U		5,301	NA
Intel Core i5-8365UE @ 1.60GHz		5,243	\$297.00*
Intel Core i5-10210Y @ 1.00GHz		4,895	NA
Intel Core i5-7442EQ @ 2.10GHz		4,834	\$250.00*
Intel Core i5-6442EQ @ 1.90GHz		4,519	\$250.00*
AMD Athlon 220GE		4,509	\$67.27
AMD Ryzen 3 3250U		4,413	NA
Intel Core i3-8109U @ 3.00GHz		4,374	\$479.99





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Intel Core i3-8121U @ 2.20GHz		4,281	\$350.00
AMD Ryzen Embedded R1505G		4,280	NA

## 🏠 CPU Benchmarks ▼

AMD Athlon Gold 3150U		4,194	NA
Intel Core i3-10110U @ 2.10GHz		4,172	\$442.00
Intel Core i5-7287U @ 3.30GHz		4,149	NA
AMD Athlon 300U		4,107	NA
Intel Core i3-1000NG4 @ 1.10GHz		4,035	NA
AMD Ryzen Embedded V1202B		3,734	NA
Intel Core i3-8145U @ 2.10GHz		3,722	\$281.00*
Intel Core i3-10110Y @ 1.00GHz		3,639	\$287.00*
AMD A8-7680		3,620	\$50.08
Intel Core i3-8130U @ 2.20GHz		3,607	\$281.00*
AMD Ryzen 3 2200U		3,596	NA
Intel Core i3-7167U @ 2.80GHz		3,489	NA
Intel Core i3-7100H @ 3.00GHz		3,460	\$225.00*
AMD Embedded R-Series RX-418GD Radeon R6		3,426	NA
Intel Core i5-6287U @ 3.10GHz		3,378	\$304.00*
AMD Athlon Silver 3050U		3,227	NA
Intel Core i7-8500Y @ 1.50GHz		3,189	\$393.00*
Intel Core i5-8200Y @ 1.30GHz		3,161	\$291.00*
Intel Core m3-8100Y @ 1.10GHz		3,058	\$281.00*
Intel Core i5-L16G7 @ 1.40GHz		3,049	\$281.00*
Intel Core i5-8210Y @ 1.60GHz		2,905	NA
Intel Core i3-7130U @ 2.70GHz		2,875	\$459.99*
AMD 3020e		2,727	NA
AMD A6-9400		2,717	NA
AMD 3015e		2,678	NA
Intel Pentium Silver N5000 @ 1.10GHz		2,653	\$161.00*
AMD PRO A10-9700B		2,626	NA
Intel Pentium Silver N5030 @ 1.10GHz		2,578	NA
Intel Core i3-7020U @ 2.30GHz		2,544	\$281.00*
Intel Core i3-7102E @ 2.10GHz		2,521	\$225.00*
Intel Celeron N4100 @ 1.10GHz		2,497	\$107.00*
Intel Pentium 6405U @ 2.40GHz		2,430	\$161.00*
Intel Celeron N4120 @ 1.10GHz		2,421	NA
AMD PRO A12-8830B		2,392	NA
Intel Core i3-6102E @ 1.90GHz		2,349	\$225.00*
Intel Pentium 5405U @ 2.30GHz		2,338	\$161.00*
Intel Pentium 4417U @ 2.30GHz		2,282	\$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
Intel Core i5-4422E @ 1.80GHz		1,907	\$266.00*
Intel Core i5-4230U @ 1.90GHz		1,853	NA
AMD GX-420MC SOC		1,796	NA
Intel Celeron 3965U @ 2.20GHz		1,786	\$107.00*
Intel Celeron N4020 @ 1.10GHz		1,719	NA

<a href="#">AMD PRO A6-7350B</a>		<b>1,679</b>	<a href="#">NA</a>
<a href="#">Intel Pentium 4415Y @ 1.60GHz</a>		<b>1,647</b>	<a href="#">\$161.00*</a>

**CPU Benchmarks** ▼

<a href="#">AMD A9-9425</a>		<b>1,552</b>	<a href="#">NA</a>
<a href="#">AMD Embedded G-Series GX-420GI Radeon R7E</a>		<b>1,527</b>	<a href="#">NA</a>
<a href="#">Intel Celeron N4000 @ 1.10GHz</a>		<b>1,478</b>	<a href="#">\$107.00*</a>
<a href="#">Intel Celeron 3867U @ 1.80GHz</a>		<b>1,467</b>	<a href="#">\$107.00*</a>
<a href="#">Intel Pentium 4425Y @ 1.70GHz</a>		<b>1,458</b>	<a href="#">\$161.00*</a>
<a href="#">Intel Celeron 5205U @ 1.90GHz</a>		<b>1,451</b>	<a href="#">\$107.00*</a>
<a href="#">Intel Pentium 4410Y @ 1.50GHz</a>		<b>1,387</b>	<a href="#">\$161.00*</a>
<a href="#">AMD A6-9220</a>		<b>1,379</b>	<a href="#">NA</a>
<a href="#">Intel Atom C2538 @ 2.40GHz</a>		<b>1,356</b>	<a href="#">\$104.00*</a>
<a href="#">AMD A6-9225</a>		<b>1,336</b>	<a href="#">NA</a>
<a href="#">Intel Atom T5700 @ 1.70GHz</a>		<b>1,326</b>	<a href="#">NA</a>
<a href="#">AMD A4-9125</a>		<b>1,277</b>	<a href="#">NA</a>
<a href="#">Intel Celeron 1020M @ 2.10GHz</a>		<b>1,275</b>	<a href="#">NA</a>
<a href="#">AMD Embedded G-Series GX-224IJ Radeon R4E</a>		<b>1,271</b>	<a href="#">NA</a>
<a href="#">Intel Pentium A1020 @ 2.41GHz</a>		<b>1,265</b>	<a href="#">NA</a>
<a href="#">AMD A4-9120</a>		<b>1,255</b>	<a href="#">NA</a>
<a href="#">AMD A6-9220C</a>		<b>1,254</b>	<a href="#">NA</a>
<a href="#">Intel Celeron 4205U @ 1.80GHz</a>		<b>1,251</b>	<a href="#">\$107.00*</a>
<a href="#">Intel Celeron 3965Y @ 1.50GHz</a>		<b>1,220</b>	<a href="#">\$107.00*</a>
<a href="#">AMD R-272F APU</a>		<b>1,215</b>	<a href="#">NA</a>
<a href="#">AMD A9-9420e</a>		<b>1,171</b>	<a href="#">NA</a>
<a href="#">Intel Celeron 2002E @ 1.50GHz</a>		<b>1,091</b>	<a href="#">\$86.00*</a>
<a href="#">AMD A6-9200</a>		<b>1,076</b>	<a href="#">NA</a>
<a href="#">AMD Embedded G-Series GX-215JJ Radeon R2E</a>		<b>1,071</b>	<a href="#">NA</a>
<a href="#">AMD PRO A4-4350B</a>		<b>1,064</b>	<a href="#">NA</a>
<a href="#">AMD A6-9220e</a>		<b>1,031</b>	<a href="#">NA</a>
<a href="#">AMD A4-9120C</a>		<b>937</b>	<a href="#">NA</a>
<a href="#">AMD A4-9120e</a>		<b>793</b>	<a href="#">NA</a>
<a href="#">AMD G-T40R</a>		<b>120</b>	<a href="#">NA</a>
<a href="#">VIA Eden 1000MHz</a>		<b>80</b>	<a href="#">NA</a>

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