

**CPU Benchmarks** 



## **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 <a href="PerformanceTest">PerformanceTest</a> 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	CPU Mark	Price Performance	Sorted b	Sorted by Date		
<b>**</b>	High End  High Mid Range  Low Mid Range  Low End	PassMark - CPU Mark Laptop & Portable CPU Performance Updated 28th of July 2023					
		CPU	CPU Mark	4	Price (USD)		
	Best Value (On Market) Best Value XY Scatter Best Value (All time)	AMD Ryzen 9 7945HX		<u>57,793</u>	<u>NA</u>		
\$		Intel Core i9-13980HX		48,593	<u>\$668.00*</u>		
		AMD Ryzen 9 7845HX		<u>46,601</u>	NA ************************************		
		Intel Core i9-13900HX		<u>45,517</u>	\$668.00*		
		Intel Core i9-13950HX		45,357	\$590.00*		
		Intel Core i7-13850HX		39,002	\$428.00*		
<b>₹</b> ¶}	New Desktop New Laptop	Intel Core i7-12900HX		<u>34,950</u>	\$606.00* \$485.00*		
3WE		Intel Core i7-13700HX		34,686	\$485.00*		
		AMD Ryzen 7 7745HX		33,420	<u>NA</u>		
li.	Single Thread  Systems with Multiple CPUs  Overclocked  Power	Intel Core i7-12800HX		33,386	\$457.00*		
		Intel Core i7-12950HX		33,004	\$590.00*		
		Intel Core i7-13650HX		<u>32,563</u>	\$485.00*		
		AMD Ryzen 9 7940HS		31,147	NA NA		
		AMD Ryzen 9 7940H		31,094	<u>NA</u>		
	Performance	Intel Core i9-13900HK		<u>31,086</u>	\$697.00* \$697.00*		
	CPU Mark by Socket Type Cross-Platform CPU Performance Top Gaming CPUs	AMD Ryzen 7 7840HS		31,068 30,688	<u>\$097.00</u> <u>NA</u>		
		Intel Core i7-12850HX		30,485	\$428.00*		
		Intel Core i9-13900H		<u>30,465</u>	\$617.00*		
		Intel Core i5-13600HX		<u>29,716</u>	\$284.00*		
$\bigcirc$	CPU Mega List Search Model	Intel Core i7-13700H		<u>29,195</u>	\$502.00*		
4		AMD Ryzen 9 PRO 7940HS		28,920	<u>NA</u>		
		Intel Core i9-12900H		28,815	\$617.00*		
		Intel Core i5-13500HX		28,199	\$326.00*		







Most **Benchmarked** 



AMD vs Intel Market Share

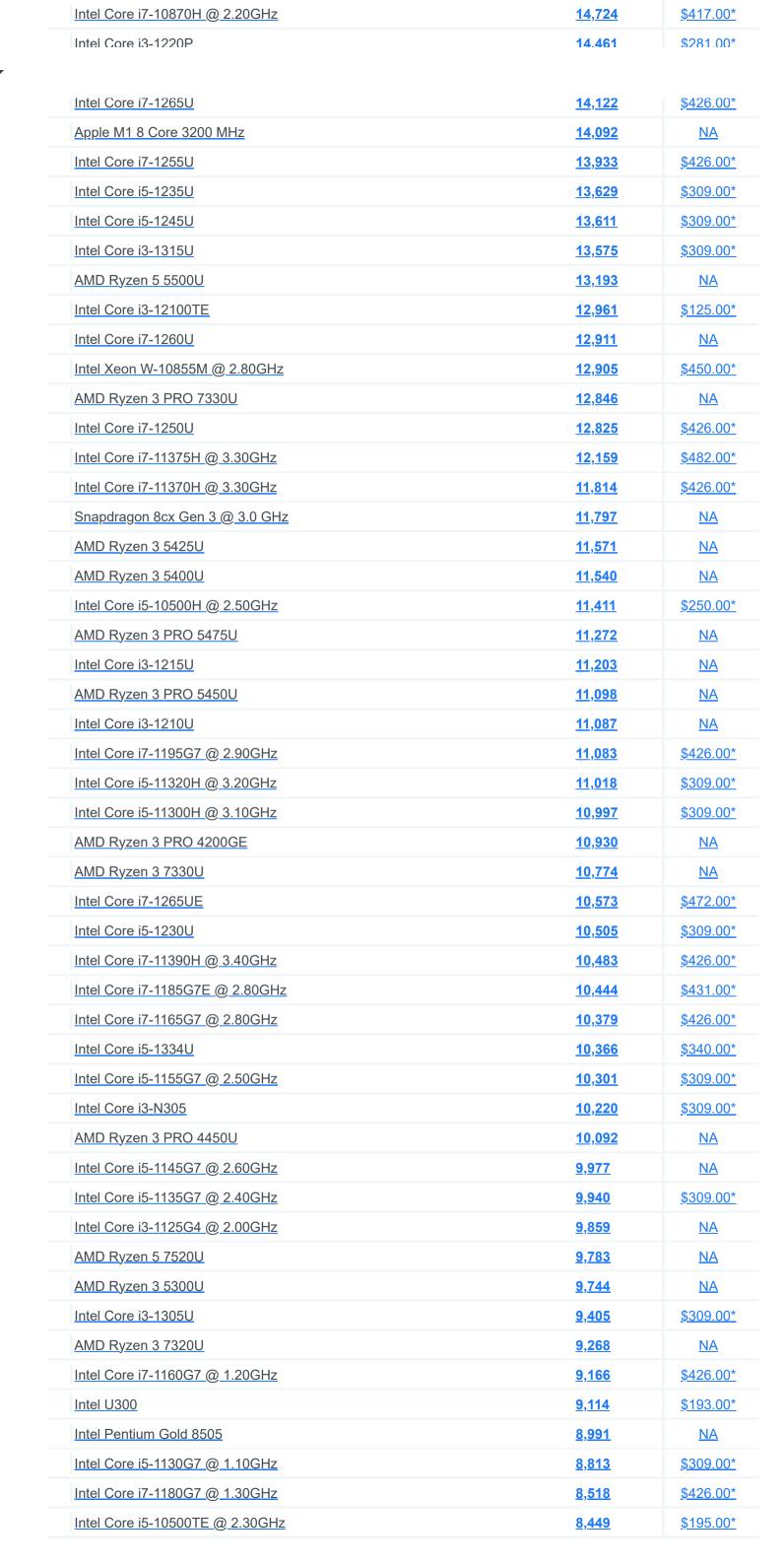
> Year on Year Performance

	40.400	A00=:
Intel Core i9-12900HK	<u>28,160</u>	\$635.00*
Intel Core i7-13800H	27.764	\$457.00*
Intel Core i7-13620H	27,206	\$502.00*
Intel Core i7-12700H	26,602	<u>\$457.00*</u>
Apple M2 Pro 12 Core 3480 MHz	<u>26,460</u>	<u>NA</u>
Apple M2 Max 12 Core 3680 MHz	<u>26,256</u>	NA topo cot
Intel Core i5-13450HX	<u>26,117</u>	\$326.00*
Intel Core i5-13600H	<u>25,776</u>	\$311.00*
Intel Core i7-12800H	24,971	<u>\$457.00*</u>
AMD Ryzen 9 6900HX	24,955	<u>NA</u>
AMD Ryzen 7 7735H	24,347	<u>NA</u>
AMD Ryzen 7 PRO 7840HS	<u>24,205</u>	<u>NA</u>
AMD Ryzen 7 7735HS	<u>24,199</u>	<u>NA</u>
AMD Ryzen 9 6900HS	<u>24,026</u>	NA 1
Intel Core i7-12650H	<u>23,951</u>	\$457.00*
Intel Core i5-12600HX	23,908	<u>\$284.00*</u>
AMD Ryzen 7 7736U	<u>23,860</u>	NA
AMD Ryzen 7 6800H	<u>23,813</u>	<u>NA</u>
Intel Core i7-13705H	<u>23,753</u>	<u>\$502.00*</u>
AMD Ryzen 9 5980HX	<u>23,692</u>	<u>NA</u>
Intel Core i5-13500H	<u>23,463</u>	NA
AMD Ryzen 9 PRO 6950HS	<u>23,295</u>	<u>NA</u>
AMD Ryzen 5 7640HS	<u>23,127</u>	<u>NA</u>
AMD Ryzen 7 6800HS	<u>23,079</u>	<u>NA</u>
Intel Core i9-11980HK @ 2.60GHz	<u>23,056</u>	<u>\$583.00*</u>
AMD Ryzen 7 PRO 6850H	<u>23,055</u>	<u>NA</u>
Intel Core i5-12600H	23,012	<u>\$311.00*</u>
Intel Xeon W-11955M @ 2.60GHz	<u>22,967</u>	<u>\$623.00*</u>
AMD Ryzen 7 6800HS Creater	<u>22,812</u>	<u>NA</u>
AMD Ryzen 7 6800HS Creator Edition	<u>22,724</u>	<u>NA</u>
AMD Ryzen 9 PRO 6950H	<u>22,546</u>	<u>NA</u>
Intel Core i5-1350P	<u>22,544</u>	<u>\$320.00*</u>
Intel Core i7-1370P	<u>22,489</u>	NA
AMD Ryzen 9 6900HS Creator Edition	22,407	<u>NA</u>
Apple M1 Max 10 Core 3200 MHz	22,081	NA
AMD Ryzen 7 PRO 6850HS	22,044	NA
AMD Ryzen 9 5900HS	21,955	NA
Apple M1 Pro 10 Core 3200 MHz	21,876	NA
Apple M2 Pro 10 Core 3480 MHz	21,669	NA
Intel Core i5-12500H	21,633	\$311.00*
Intel Core i9-11950H @ 2.60GHz	21,534	\$556.00*
Intel Core i5-1340P	21,245	\$353.00*
AMD Ryzen 7 5800H	21,240	NA
AMD Ryzen 9 5980HS	21,232	NA
AMD Ryzen 7 5800HS Creator		
Edition	21,166	<u>NA</u>
AMD Ryzen 7 7735U	<u>21,082</u>	<u>NA</u>
Intel Core i9-11900H @ 2.50GHz	<u>21,065</u>	<u>\$546.00*</u>
AMD Ryzen 7 PRO 6860Z	<u>20,994</u>	<u>NA</u>
AMD Ryzen 9 5900H	<u>20,960</u>	<u>NA</u>
AMD Ryzen 7 PRO 6850U	<u>20,921</u>	<u>NA</u>











<u>NA</u> AMD Athlon Gold PRO 4150GE <u>8,259</u> Intel Core i5-10200H @ 2.40GHz 8.242 \$250.00\* AMD Ryzen 7 3700C <u>7,145</u> <u>NA</u> Snapdragon 8cx Gen 2 @ 3.0 GHz <u>6,770</u> <u>NA</u> AMD Ryzen 5 3450U <u>6,753</u> <u>NA</u> Snapdragon 8cx Gen 2 @ 3.15 <u>6,511</u> <u>NA</u> GHz \$281.00\* Intel Core i3-1115G4 @ 3.00GHz <u>6,158</u> AMD Ryzen 3 3350U <u>5,846</u> <u>NA</u> \$250.00\* Intel Core i5-7440EQ @ 2.90GHz <u>5,711</u> AMD Ryzen 5 3500C <u>5,564</u> <u>NA</u> Intel N95 <u>5,455</u> <u>NA</u> Intel Pentium Silver N6005 @ <u>5,395</u> <u>NA</u> 2.00GHz Intel Pentium Gold 7505 @ <u>5,263</u> <u>NA</u> 2.00GHz Snapdragon 8c @ 2.46 GHz <u>5,230</u> <u>NA</u> \$403.00\* Intel Core i7-10510Y @ 1.20GHz <u>5,100</u> AMD Athlon Gold 7220U <u>4,991</u> <u>NA</u> Snapdragon 8cx @ 2.84 GHz <u>4,660</u> <u>NA</u> AMD Athlon Silver 3050GE <u>4,545</u> <u>NA</u> \$122.00\* Intel Core i3-9100TE @ 2.20GHz <u>4,501</u> Intel Pentium 6805 @ 1.10GHz <u>4,424</u> <u>\$161.00\*</u> Intel Core i5-6350HQ @ 2.30GHz <u>4,255</u> \$306.00\* Intel Core i3-8140U @ 2.10GHz 4,227 <u>NA</u> \$281.00\* Intel Core i3-8145UE @ 2.20GHz <u>4,099</u> AMD Athlon PRO 300U <u>4,080</u> <u>NA</u> Snapdragon 7c Gen 2 @ 2.55 GHz <u>3,767</u> NA Snapdragon 7c @ 1.96 GHz <u>3,712</u> <u>NA</u> \$281.00\* Intel Core i5-L16G7 @ 1.40GHz <u>3,445</u> Intel Pentium Silver N5020 @ <u>3,404</u> <u>NA</u> 1.10GHz Intel Celeron N5100 @ 1.10GHz <u>3,351</u> <u>NA</u> Snapdragon 850 @ 2.96 GHz <u>3,326</u> <u>NA</u> AMD Athlon Gold 3150C <u>3,292</u> <u>NA</u> AMD Ryzen 3 3250C <u>3,208</u> <u>NA</u> Intel Core i3-6167U @ 2.70GHz <u>3,156</u> <u>NA</u> Snapdragon 7c @ 2.40 GHz <u>3,154</u> <u>NA</u> AMD Athlon Silver 3050e <u>3,038</u> <u>NA</u> AMD Ryzen Embedded R1305G **2,980** <u>NA</u> AMD Athlon Silver 7120U **2**,558 <u>NA</u> Intel Celeron 7305 2,189 \$107.00\* Intel Celeron 6305 @ 1.80GHz <u>2,083</u> <u>NA</u> Snapdragon 835 <u>1,905</u> <u>NA</u> Intel Celeron N4020C @ 1.10GHz <u>1,578</u> <u>NA</u> AMD Athlon PRO 3045B <u>1,487</u> <u>NA</u> Intel Pentium Dual T2390 @ <u>745</u> <u>NA</u> 1.86GHz AMD E2-7015 <u>572</u> <u>NA</u>

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