

CPU Benchmarks

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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 24 months. Older laptop CPUs may not appear.

CPU Mark

Price Performance

Sorted by Date

PassMark - CPU Mark

Laptop & Portable CPU Performance

Updated 15th of August 2024

CPU	CPU Mark	Price (USD)
AMD EPYC 9454	95,485	\$3,950.00
AMD Ryzen 9 7945HX3D	58,036	NA
AMD Ryzen 9 7945HX	54,783	NA
AMD Ryzen 9 7940HX	53,799	NA
Intel Core i9-13980HX	47,282	\$669.00*
Intel Core i9-14900HX	46,146	\$679.00*
AMD Ryzen 9 7845HX	45,610	NA
Intel Core i9-13900HX	44,383	\$668.00*
Intel Core i9-13950HX	43,905	\$599.00*
Apple M3 Max 16 Core	40,609	NA
Intel Core i7-13850HX	37,833	\$428.00*

Intel Core i7-14650HX
AMD Ryzen AI 9 HX 370

37,545 \$495.00*
36,934 NA

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Apple M3 Max 14 Core

36,291 NA

Intel Core i7-13700HX

33,845 \$485.00*

AMD Ryzen 7 7745HX

32,698 NA

AMD Ryzen 9 PRO 8945HS

31,774 NA

Intel Core i9-13900HX

31,569 \$697.00*

Intel Core i7-13650HX

31,429 \$485.00*

AMD Ryzen 9 8945H

31,008 NA

AMD Ryzen AI 9 365

30,865 NA

Intel Core i5-13500HX

30,451 \$326.00*

AMD Ryzen 9 7940HS

30,399 NA

Intel Core i9-13905H

30,029 \$697.00*

AMD Ryzen 9 8945HS

29,553 NA

AMD Ryzen 7 PRO 8845HS

29,225 NA

Intel Core Ultra 9 185H

29,158 NA

Intel Core i9-13900H

28,954 \$617.00*

AMD Ryzen 7 7840HS

28,934 NA

AMD Ryzen 7 8845HS

28,635 NA

Intel Core i5-14500HX

28,612 \$337.00*

AMD Ryzen 9 7940H

28,600 NA

AMD Ryzen 7 7840H

28,514 NA

AMD Ryzen 9 PRO 7940HS

28,098 NA

AMD Ryzen 7 PRO 8840HS

27,822 NA

AMD Ryzen 7 8845H

27,793 NA

Intel Core i5-13600HX

27,591 \$284.00*

Intel Core i7-13700H

27,287 \$502.00*

Intel Core i7-13600H

27,106 \$457.00*

Apple M3 Pro 12 Core

26,881 NA

AMD Ryzen 5 7645HX

26,868 NA

AMD Ryzen 7 PRO 7840HS

26,608 NA

Apple M2 Max 12 Core 3680 MHz

26,532 NA

Apple M2 Pro 12 Core 3480 MHz

26,421 NA

Intel Core Ultra 7 165H

26,189 NA

Intel Core i5-13450HX

25,474 \$326.00*

Intel Core Ultra 7 155H

25,174 NA

Intel Core i7-13620H

25,119 \$502.00*

AMD Ryzen 7 7840U

24,997 NA

AMD Ryzen 7 PRO 7840U

24,951 NA

AMD Ryzen 7 PRO 8840U

24,803 NA

Apple M3 Pro 11 Core

24,685 NA

AMD Ryzen 7 7840S

24,635 NA

AMD Ryzen 7 7435HS

24,487 NA

AMD Ryzen 7 8840HS

24,327 NA

Intel Core i5-13600H

24,255 \$311.00*

AMD Ryzen 7 7735HS

24,092 NA

AMD Ryzen 7 7735H

24,025 NA

AMD Ryzen 7 8840U

23,679 NA

Intel Core i7-13705H

23,662 \$502.00*

Qualcomm Snapdragon X Elite - X1E-84-100

23,576 NA

Qualcomm Snapdragon X Elite - X1E-78-100

23,142

NA

Intel Core Ultra 5 135H

23,113

NA



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AMD Ryzen 5 8645HS

23,029

NA

Qualcomm Snapdragon X Elite - X1E-80-100

22,828

NA

AMD Ryzen 5 7640HS

22,792

NA

Intel Core i5-13500H

22,790

NA

AMD Ryzen 5 PRO 7640HS

22,778

NA

Intel Core Ultra 5 125H

22,685

NA

AMD Ryzen 7 7736U

22,195

NA

AMD Ryzen 5 PRO 8640HS

22,041

NA

Apple M2 Pro 10 Core 3480 MHz

21,697

NA

Qualcomm Snapdragon X Plus X1P-64-100

21,661

NA

AMD Ryzen 7 7735U

21,275

NA

AMD Ryzen 5 7640U

21,158

NA

AMD Ryzen 5 8640U

20,772

NA

Intel Core i7-12650HX

20,612

\$472.00*

AMD Ryzen 7 Pro 7735U

20,281

NA

Intel Core i7-1370P

20,179

NA

Apple M3 8 Core

19,540

NA

AMD Ryzen 5 8640HS

19,433

NA

Intel Core i7-1360P

19,278

\$480.00*

Intel Core i5-1350P

19,222

\$320.00*

AMD Ryzen 5 7540U

19,213

NA

AMD Ryzen 7 PRO 7730U

19,065

NA

AMD Ryzen 5 PRO 8540U

19,074

NA

Intel Core i5-12450HX

18,960

NA

AMD Ryzen 5 PRO 6650H

18,928

NA

Intel Core i5-1340P

18,739

\$353.00*

Intel Core i5-13420H

18,705

\$342.00*

AMD Ryzen 7 7730U

18,673

NA

AMD Ryzen 5 7535HS

18,443

NA

AMD Ryzen 5 6600HS Creator Edition

18,353

NA

AMD Ryzen 5 PRO 7540U

18,089

NA

AMD Ryzen 5 8540U

17,935

NA

Intel Core Ultra 5 125U

17,932

\$363.00*

Intel Core Ultra 7 165U

17,614

NA

Intel Core Ultra 5 135U

17,542

NA

AMD Ryzen 7 4980U Microsoft Surface Edition

17,469

NA

AMD Ryzen 5 Pro 7535U

16,932

NA

Intel Core Ultra 7 155U

16,800

\$490.00*

AMD Ryzen 5 7535U

16,515

NA

AMD Ryzen 5 7530U

16,113

NA

Intel Core 7 150U

16,034

NA

AMD Ryzen 5 7430U

15,454

NA

Intel Core i5-1345U

15,203

\$309.00*

Intel Core Ultra 7 164U

15,106

NA

AMD Ryzen 5 PRO 7530U

15,014

NA

Intel Core i7-1355U

14,924

\$469.00*

Intel Core i7-1365U


14,884

\$426.00*

Intel Core i5-1335U

14,854

\$340.00*

Intel Core i5-1334U	14,731	\$340.00*
Intel Core i7-1260U	14,127	NA
 CPU Benchmarks ▼		
Intel Core i5-1240U	13,289	NA
AMD Ryzen 3 PRO 7330U	12,731	NA
AMD Ryzen 3 8440U	12,696	NA
Intel Core i3-1315U	12,355	\$309.00*
AMD Ryzen 3 PRO 7335U	12,333	NA
Intel Core Ultra 5 134U	11,783	\$332.00*
AMD Ryzen 3 7335U	11,739	NA
AMD Ryzen 5 5500H	11,702	NA
Microsoft SQ3 @ 3.0 GHz	11,684	NA
AMD Ryzen 3 7330U	11,011	NA
AMD Ryzen 5 7235HS	10,607	NA
Intel Core i3-N305	10,041	\$309.00*
Intel Core i7-1265UE	9,471	\$472.00*
Intel U300	9,245	\$193.00*
AMD Ryzen 5 7520U	9,244	NA
AMD Ryzen 3 7320U	8,886	NA
Intel Core i3-1305U	8,843	\$309.00*
AMD Ryzen 3 7320C	8,614	NA
Intel Core i3-N300	8,561	\$309.00*
AMD Ryzen 5 Microsoft Surface Edition	7,243	NA
Intel Core i3-1025G1 @ 1.20GHz	6,160	NA
Intel N95	5,376	NA
AMD Athlon Gold 7220U	4,725	NA
Intel Core i7-6970HQ @ 2.80GHz	4,632	NA
AMD Athlon PRO 300U	4,080	NA
Intel Core i3-6167U @ 2.70GHz	3,255	NA
AMD Athlon Silver 7120U	3,137	NA
ARM Cortex-A78 4 Core 2000 MHz	3,016	NA
AMD Athlon PRO 3045E	2,618	NA
AMD A4-1350 APU	894	NA
AMD Turion X2 Dual-Core Mobile RM-76	799	NA

Software

BurnInTest

PerformanceTest

OSForensics

MemTest86

Hardware

USB3.0 Loopback Plugs

USB2.0 Loopback Plugs

PCIe Test Cards

USB Power Delivery Tester

WirelessMon
Management Console

Serial and Parallel Loopback Plugs

HSR Short Circuit Testers



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