


CPU Benchmarks


Over 1,000,000 CPUs Benchmarked

Apple M2 8 Core 3500 MHz

Price and performance details for the Apple M2 8 Core 3500 MHz can be found below. This is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPUMark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.


 CPU

 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

Top Gaming CPUs

 CPU Mega List

Search Model

Apple M2 8 Core 3500 MHz

Description:

Class:

Socket:

Desktop, Laptop

Total Cores: 8 Cores, 8 Threads

Primary Cores: 4 Cores, 4 Threads, 3.5 GHz Base, NA Turbo

Secondary Cores: 4 Cores, 4 Threads, 2.8 GHz Base, NA Turbo

Other names: ARM Apple M2 8 Core 0 MHz

CPU First Seen on Charts: Q3 2022

CPUMark/\$Price: NA


Overall Rank: 494

Last Price Change: NA

CPU Test Suite Average Results for Apple M2 8 Core 3500 MHz

Integer Math	35,994 MOps/Sec
Floating Point Math	39,137 MOps/Sec
Find Prime Numbers	187 Million Primes/Sec
Random String Sorting	25 Thousand Strings/Sec

Average CPU Mark



15354

Single Thread Rating: 4006

Samples: 361*

*Margin for error: Low

+ COMPARE

CPU Benchmarks

Benchmarked

 AMD vs Intel
Market Share

 Year on Year
Performance

Data Encryption

9,805 MBytes/Sec

Physics

1,646 Frames/Sec

Extended Instructions

6,269 Million Matrices/Sec

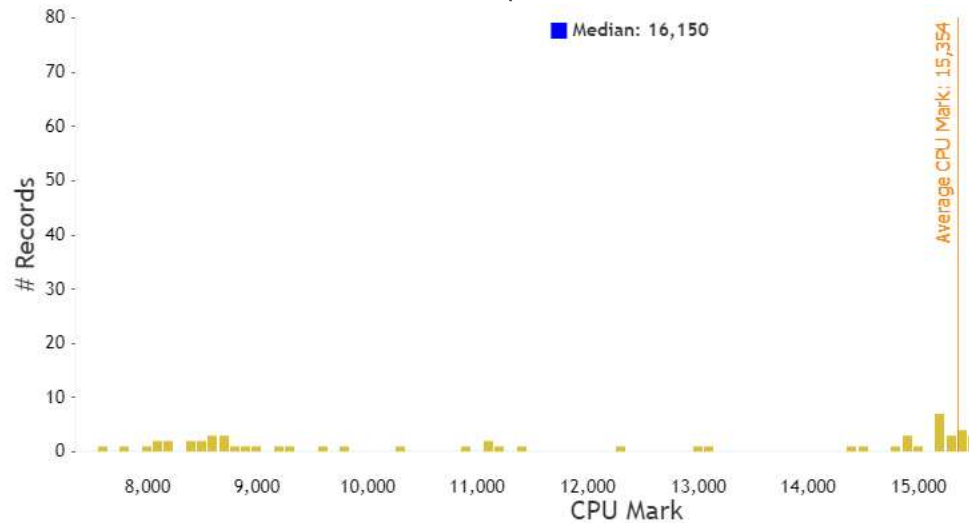
Single Thread

4,006 MOps/Sec

From submitted results to PerformanceTest V10 as of 1st of December 2022.

CPU Mark Distribution for Apple M2 8 Core 3500 MHz

Submitted Baseline Distribution Graph as of 28th of November 2022



From submitted results to PerformanceTest V10 as of 28th of November 2022.

For distribution graph only: Results are [trimmed](#) to exclude outliers by disregarding the bottom 1% and top 1% of submissions.

Search for **Apple M2 8 Core 3500 MHz**

from the Featured Merchants below:






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Machines with this CPU (or similar)



[2020 Apple MacBook Air Laptop: Apple M1 Chip, 13" Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works with iPhone/iPad, Space Gray.](#)

\$799.99

(www.amazon.com)

[2022 Apple MacBook Air Laptop with M2 chip: 13.6-inch Liquid Retina Display, 8GB](#)



CPU Benchmarks



[2022 Apple MacBook Air Laptop with M2 chip, 13.6-inch Liquid Retina Display, 8GB RAM, 512GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone and iPad: Starlight](#)

\$1349.99
(www.amazon.com)



[2022 Apple MacBook Air Laptop with M2 chip, 13.6-inch Liquid Retina Display, 8GB RAM, 512GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone and iPad: Silver](#)

(www.amazon.com)



[2021 Apple MacBook Pro \(14-inch, Apple M1 Pro chip with 10-core CPU and 16-core GPU, 16GB RAM, 1TB SSD\) - Space Gray](#)

\$2199.00
(www.amazon.com)



[2021 Apple MacBook Pro \(16-inch, Apple M1 Pro chip with 10-core CPU and 16-core GPU, 16GB RAM, 1TB SSD\) - Space Gray](#)

\$2299.00
(www.amazon.com)

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CPU Mark Relative to Top 10 Common Desktop, Laptop CPUs

As of 2nd of December 2022 - Higher results represent better performance

Processor

Average CPU Mark

AMD Ryzen 7 5800H	21.334
Intel Core i7-11800H @ 2.30GHz	21.115
Intel Core i9-9900K @ 3.60GHz	18.593
AMD Ryzen 5 3600	17.802
Apple M2 8 Core 3500 MHz	15,354
Intel Core i7-9700K @ 3.60GHz	14.554
Apple M1 8 Core 3200 MHz	14.352
Apple M1 8 Core 3200 MHz	14.352
Intel Core i7-10750H @ 2.60GHz	12.191
Intel Core i7-9750H @ 2.60GHz	11.111
Intel Core i7-8750H @ 2.20GHz	10.031

CPU Value (CPU Mark / \$Price)

As of 2nd of December 2022 - Higher results represent better value

Processor

CPU Mark / \$Price

AMD Ryzen 5 3600	161.86
Intel Core i7-11800H @ 2.30GHz	53.45
Intel Core i7-9700K @ 3.60GHz	49.57



CPU Benchmarks



Intel Core i9-9900K @ 3.60GHz		36.46
Intel Core i7-8750H @ 2.20GHz		25.39
Intel Core i7-9750H @ 2.60GHz		11.57
Apple M2 8 Core 3500 MHz		NA
Apple M1 8 Core 3200 MHz		NA
Apple M1 8 Core 3200 MHz		NA
AMD Ryzen 7 5800H		NA

Single Thread Rating

As of 2nd of December 2022 - Higher results represent better performance

Processor	Average Thread Rating
Apple M2 8 Core 3500 MHz	4,006
Apple M1 8 Core 3200 MHz	3.738
Apple M1 8 Core 3200 MHz	3.738
Intel Core i7-11800H @ 2.30GHz	3.122
AMD Ryzen 7 5800H	3.074
Intel Core i9-9900K @ 3.60GHz	2.950
Intel Core i7-9700K @ 3.60GHz	2.893
Intel Core i5-1135G7 @ 2.40GHz	2.720
Intel Core i7-10750H @ 2.60GHz	2.695
AMD Ryzen 5 3600	2.569
Intel Core i7-9750H @ 2.60GHz	2.470

Last 5 Baselines for Apple M2 8 Core 3500 MHz

Most recent listed first

Baseline	CPU Mark
BL5027177 - Dec 01 2022	16267
BL5027143 - Dec 01 2022	16161

[BL5027119 - Nov 30 2022](#)[16140](#)**CPU Benchmarks**[BL5027099 - Nov 30 2022](#)[15607](#)**Popular comparisons for Apple M2 8 Core 3500 MHz***As of 2nd of December 2022 - Higher results represent better performance***Processor****Average CPU Mark**

Apple M2 8 Core 3500 MHz	15,354
Intel Core i7-1255U vs Apple M2 8 Core 3500 MHz	13,633 (-11.2%)
Intel Core i5-1235U vs Apple M2 8 Core 3500 MHz	13,537 (-11.8%)
Intel Core i3-1220P vs Apple M2 8 Core 3500 MHz	15,090 (-1.7%)
Apple M1 8 Core 3200 MHz vs Apple M2 8 Core 3500 MHz	14,352 (-6.5%)
Intel Core i7-1265U vs Apple M2 8 Core 3500 MHz	13,566 (-11.6%)
Intel Core i7-1250U vs Apple M2 8 Core 3500 MHz	13,457 (-12.4%)
Snapdragon 8cx Gen 3 @ 3.0 GHz vs Apple M2 8 Core 3500 MHz	11,783 (-23.3%)
Intel Core i7-1250U vs Apple M2 8 Core 3500 MHz	13,457 (-12.4%)
Intel Core i5-1240U vs Apple M2 8 Core 3500 MHz	14,323 (-6.7%)
Intel Core i7-1260U vs Apple M2 8 Core 3500 MHz	12,935 (-15.8%)
Intel Core i3-1210U vs Apple M2 8 Core 3500 MHz	12,130 (-21.0%)
Intel Core i7-1260U vs Apple M2 8 Core 3500 MHz	12,935 (-15.8%)

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