

# 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.

<p><b>CPUS</b></p> <hr/> <p><b>High End</b></p> <ul style="list-style-type: none"> <li>High Mid Range</li> <li>Low Mid Range</li> <li>Low End</li> </ul> <hr/> <p><b>Best Value (On Market)</b></p> <ul style="list-style-type: none"> <li>Best Value XY Scatter</li> <li>Best Value (All time)</li> </ul> <hr/> <p><b>New Desktop</b></p> <ul style="list-style-type: none"> <li>New Laptop</li> </ul> <hr/> <p><b>Single Thread</b></p> <ul style="list-style-type: none"> <li>Systems with Multiple CPUs</li> <li>Overclocked</li> <li>Power Performance</li> <li>CPU Mark by Socket Type</li> <li>Cross-Platform CPU Performance</li> <li>Top Gaming CPUs</li> </ul> <hr/> <p><b>CPU Mega List</b></p> <ul style="list-style-type: none"> <li>Search Model</li> </ul> <hr/> <p><b>Compare</b> 0</p>	<p><b>Apple M2 8 Core 3500 MHz</b></p> <p><b>Description:</b></p> <hr/> <p><b>Class:</b> Desktop, Laptop      <b>Socket:</b></p> <hr/> <p><b>Total Cores:</b> 8 Cores, 8 Threads</p> <hr/> <p><b>Primary Cores:</b> 4 Cores, 4 Threads, 3.5 GHz Base, NA Turbo</p> <hr/> <p><b>Secondary Cores:</b> 4 Cores, 4 Threads, 2.8 GHz Base, NA Turbo</p> <hr/> <p><b>Other names:</b> ARM Apple M2 8 Core 0 MHz</p> <hr/> <p><b>CPU First Seen on Charts:</b> Q3 2022</p> <hr/> <p><b>CPUmark/\$Price:</b> NA</p> <hr/> <p><b>Overall Rank:</b> 494</p> <hr/> <p><b>Last Price Change:</b> NA</p> <hr/> <p><b>CPU Test Suite Average Results for Apple M2 8 Core 3500 MHz</b></p> <table border="1"> <tr> <td>Integer Math</td> <td>35,994 MOps/Sec</td> </tr> <tr> <td>Floating Point Math</td> <td>39,137 MOps/Sec</td> </tr> <tr> <td>Find Prime Numbers</td> <td>187 Million Primes/Sec</td> </tr> <tr> <td>Random String Sorting</td> <td>25 Thousand Strings/Sec</td> </tr> </table>	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	<p><b>Average CPU Mark</b></p> <div style="text-align: center;">  <p><b>15354</b></p> </div> <p>Single Thread Rating: 4006 Samples: 361*</p> <p>*<a href="#">Margin for error:</a> Low</p> <p style="text-align: center;">+ COMPARE</p>
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									

CPU Benchmarks

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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

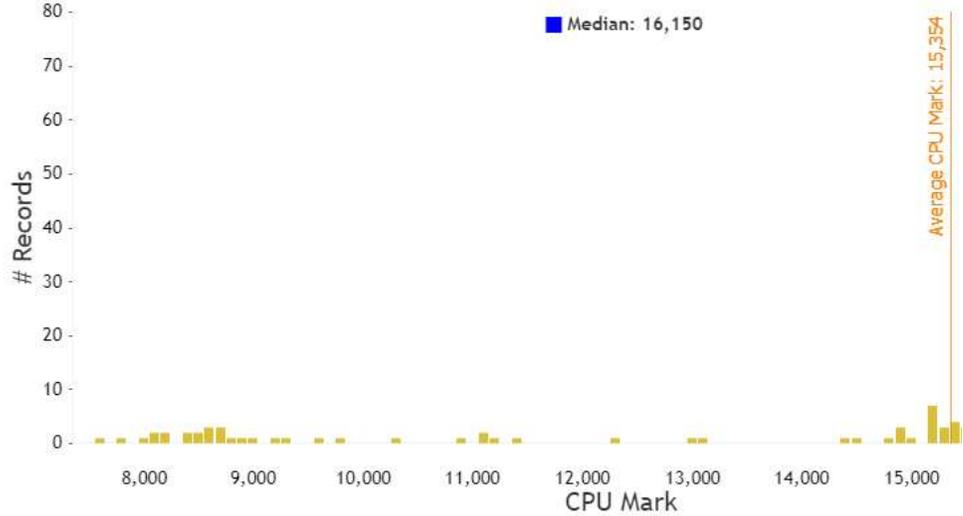
Single Thread

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



[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)



[16GB SSD Storage, Touch Bar, Backlit Keyboard, 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
<a href="#">AMD Ryzen 7 5800H</a>	<a href="#">21,334</a>
<a href="#">Intel Core i7-11800H @ 2.30GHz</a>	<a href="#">21,115</a>
<a href="#">Intel Core i9-9900K @ 3.60GHz</a>	<a href="#">18,593</a>
<a href="#">AMD Ryzen 5 3600</a>	<a href="#">17,802</a>
Apple M2 8 Core 3500 MHz	15,354
<a href="#">Intel Core i7-9700K @ 3.60GHz</a>	<a href="#">14,554</a>
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">14,352</a>
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">14,352</a>
<a href="#">Intel Core i7-10750H @ 2.60GHz</a>	<a href="#">12,191</a>
<a href="#">Intel Core i7-9750H @ 2.60GHz</a>	<a href="#">11,111</a>
<a href="#">Intel Core i7-8750H @ 2.20GHz</a>	<a href="#">10,031</a>

### CPU Value (CPU Mark / \$Price)

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

Processor	CPU Mark / \$Price
<a href="#">AMD Ryzen 5 3600</a>	<a href="#">161.86</a>
<a href="#">Intel Core i7-11800H @ 2.30GHz</a>	<a href="#">53.45</a>
<a href="#">Intel Core i7-9700K @ 3.60GHz</a>	<a href="#">49.57</a>



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<a href="#">Intel Core i9-9900K @ 3.60GHz</a>	<a href="#">36.46</a>
<a href="#">Intel Core i7-8750H @ 2.20GHz</a>	<a href="#">25.39</a>
<a href="#">Intel Core i7-9750H @ 2.60GHz</a>	<a href="#">11.57</a>
Apple M2 8 Core 3500 MHz	NA
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">NA</a>
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">NA</a>
<a href="#">AMD Ryzen 7 5800H</a>	<a href="#">NA</a>

### 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
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">3,738</a>
<a href="#">Apple M1 8 Core 3200 MHz</a>	<a href="#">3,738</a>
<a href="#">Intel Core i7-11800H @ 2.30GHz</a>	<a href="#">3,122</a>
<a href="#">AMD Ryzen 7 5800H</a>	<a href="#">3,074</a>
<a href="#">Intel Core i9-9900K @ 3.60GHz</a>	<a href="#">2,950</a>
<a href="#">Intel Core i7-9700K @ 3.60GHz</a>	<a href="#">2,893</a>
<a href="#">Intel Core i5-1135G7 @ 2.40GHz</a>	<a href="#">2,720</a>
<a href="#">Intel Core i7-10750H @ 2.60GHz</a>	<a href="#">2,695</a>
<a href="#">AMD Ryzen 5 3600</a>	<a href="#">2,569</a>
<a href="#">Intel Core i7-9750H @ 2.60GHz</a>	<a href="#">2,470</a>

### Last 5 Baselines for Apple M2 8 Core 3500 MHz

*Most recent listed first*

#### Baseline

#### CPU Mark

<a href="#">BL5027177 - Dec 01 2022</a>	<a href="#">16267</a>
<a href="#">BL5027143 - Dec 01 2022</a>	<a href="#">16161</a>

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### Popular comparisons for Apple M2 8 Core 3500 MHz

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

#### Processor

#### Average CPU Mark

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

#### Software

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