

CPU Benchmarks

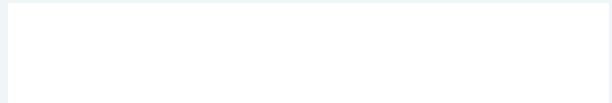
Over 1,000,000 CPUs Benchmarked



Intel Core i5-1235U

Price and performance details for the Intel Core i5-1235U 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.



CPUS	Intel Core i5-1235U	Average CPU Mark
<ul style="list-style-type: none"> High End High Mid Range Low Mid Range Low End 	<p>Description: Intel Iris Xe Graphics</p> <p>Class: Laptop, Mobile/Embedded Socket: FCBGA1744</p> <p>Total Cores: 10 Cores, 12 Threads</p> <p>Performance Cores: 2 Cores, 4 Threads, 1.3 GHz Base, 4.4 GHz Turbo</p> <p>Efficient Cores: 8 Cores, 8 Threads, 0.9 GHz Base, 3.3 GHz Turbo</p> <p>Typical TDP: 15 W TDP Up: 55 W</p> <p>Cache Size: L1: 928 KB, L2: 6.5 MB,</p> <p>Memory Support: Max. Memory Size: 64 GB (Up to DDR5 4800 MT/s, Up to DDR4 3200 MT/s, Up to)</p> <p>Other names: 12th Gen Intel(R) Core(TM) i5-1235U, 12th Gen Intel Core i5-1235U</p> <p>CPU First Seen on Charts: Q1 2022</p> <p>CPUmark/\$Price: 44.11</p> <p>Overall Rank: 693</p> <p>Last Price Change: \$309.00 USD (2022-01-01)</p>	<p>13630</p> <p>Single Thread Rating: 3306 Samples: 772* *Margin for error: Low</p> <p>+ COMPARE</p>
<ul style="list-style-type: none"> Best Value (On Market) Best Value XY Scatter Best Value (All time) 		
<ul style="list-style-type: none"> New Desktop New Laptop 		
<ul style="list-style-type: none"> Single Thread Systems with Multiple CPUs Overclocked Power Performance CPU Mark by Socket Type Cross-Platform CPU Performance Top Gaming CPUs 		
<ul style="list-style-type: none"> CPU Mega List Search Model 		

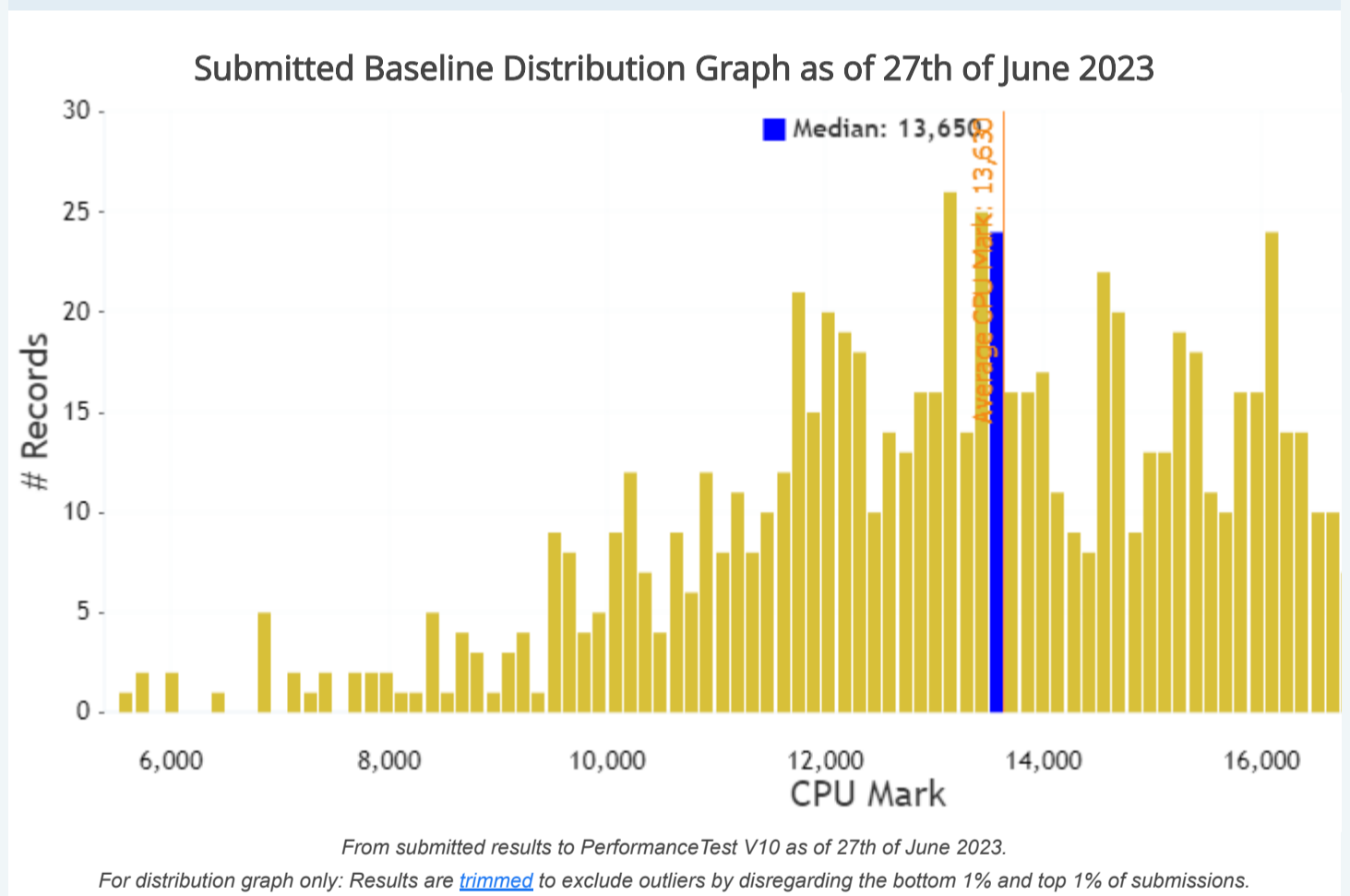
🏠 CPU Benchmarks ▼

- 📈 AMD vs Intel Market Share
- 📈 Year on Year Performance

Floating Point Math	34,643 MOps/Sec
Find Prime Numbers	38 Million Primes/Sec
Random String Sorting	17,967 Thousand Strings/Sec
Data Encryption	9,759 MBytes/Sec
Data Compression	152,403 KBytes/Sec
Physics	746 Frames/Sec
Extended Instructions	8,435 Million Matrices/Sec
Single Thread	3,306 MOps/Sec

From submitted results to PerformanceTest V10 as of 28th of June 2023.

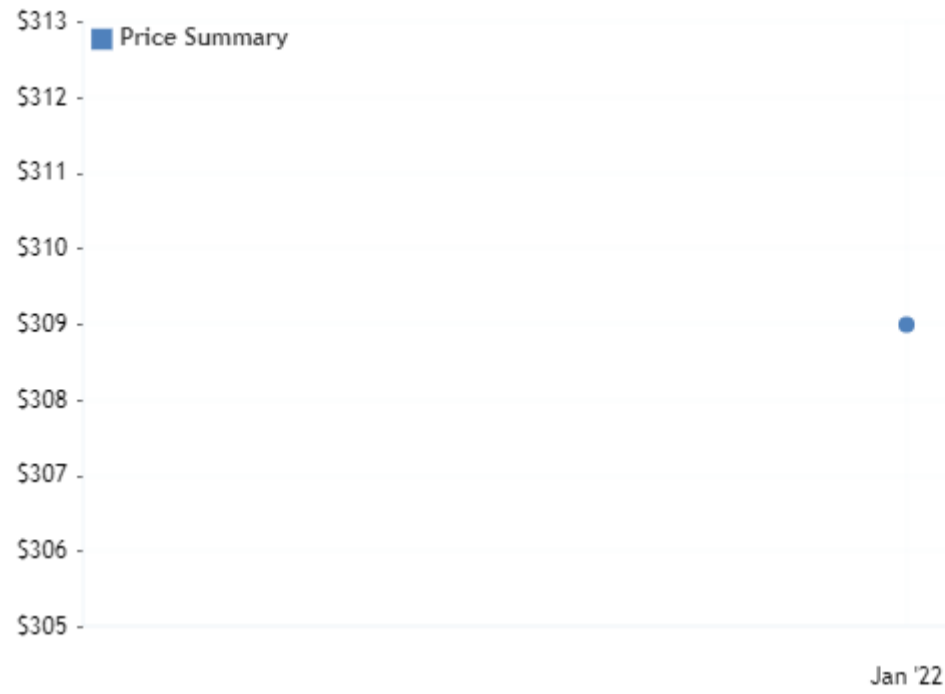
CPU Mark Distribution for Intel Core i5-1235U



Search for **Intel Core i5-1235U**
from the Featured Merchants below:



Pricing History



Machines with this CPU (or similar)

	Lenovo 15.6" Laptop with Intel i5-1235U, IdeaPad 1i, 15.6" FHD Anti-Glare Display, 12th Gen Intel Core i5-1235U 10-core Processor, Intel Iris Xe Graphics, Windows 11 Home(16GB RAM 1TB SSD)	\$699.00 <small>(www.amazon.com)</small>
	Lenovo IdeaPad 3 Laptop, 15.6" FHD Display, 12th Gen Intel Core i5-1235U Processor, 24GB RAM, 1TB SSD, Backlit KB, FP Reader, SD Card Reader, Webcam, Wi-Fi 6, Windows 11 Pro	\$669.99 <small>(www.amazon.com)</small>
	Dell 2022 Newest Latitude 5530 Business Laptop, 15.6" FHD Display, 12th Gen Intel Core i5-1235U, 64GB RAM, 2TB SSD, Webcam, HDMI, Thunderbolt 4, Backlit Keyboard, Wi-Fi 6, Windows 11 Pro, Silver	\$1219.95 <small>(www.amazon.com)</small>
	HP 15 inch Laptop, FHD Display, 12th Generation Intel Core i5-1235U, 16 GB RAM, 512 GB SSD, Intel Iris Xe Graphics, Windows 11 Home, 15-dy5399nr (2023)	\$599.99 <small>(www.amazon.com)</small>
	HP 2022 High Performance Business Laptop - 17.3" FHD IPS - 12th Intel Core i5-1235U 10-Core - Iris Xe Graphics - 16GB DDR4-1TB SSD - USB-C - Backlit Keyboard- Windows 10 w/RATZK 32GB USB	\$899.00 <small>(www.amazon.com)</small>

Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

CPU Mark Relative to Top 10 Common Laptop, Mobile/Embedded CPUs

As of 28th of June 2023 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 5800H	21,259
Apple M1 8 Core 3200 MHz	14,116
Apple M1 8 Core 3200 MHz	14,116
Intel Core i5-1235U	13,630



Intel Core i7-9750H @ 2.60GHz		11,017
AMD Ryzen Embedded V1605B		6,722
Intel Pentium Silver N6005 @ 2.00GHz		5,399
Apple A13 Bionic		5,394
Apple A12 Bionic		4,868

CPU Value (CPU Mark / \$Price)

As of 28th of June 2023 - Higher results represent better value

Processor	CPU Mark / \$Price	
Intel Core i5-1235U		44.11
Intel Core i7-9750H @ 2.60GHz		11.48
Apple M1 8 Core 3200 MHz		NA
AMD Ryzen 7 5800H		NA
Intel Core i7-10750H @ 2.60GHz		NA
Intel Pentium Silver N6005 @ 2.00GHz		NA
AMD Ryzen Embedded V1605B		NA
Apple M1 8 Core 3200 MHz		NA
Apple A14 Bionic		NA
Apple A13 Bionic		NA
Apple A11 Bionic		NA

Single Thread Rating

As of 28th of June 2023 - Higher results represent better performance

Processor	Average Thread Rating	
Apple M1 8 Core 3200 MHz		3,714
Apple M1 8 Core 3200 MHz		3,714
Apple A14 Bionic		3,399
Intel Core i5-1235U		3,306



Intel Core i7-10750H @ 2.60GHz



2,686

Apple A13 Bionic



2,242

Apple A12 Bionic



1,963

AMD Ryzen Embedded V1605B



1,932

Intel Pentium Silver N6005 @ 2.00GHz



1,768

Last 5 Baselines for Intel Core i5-1235U

Most recent listed first

Baseline	CPU Mark
BL5040751 - Jun 28 2023	11754
BL1848300 - Jun 27 2023	13103
BL1848233 - Jun 27 2023	14606
BL1847704 - Jun 27 2023	10667
BL1846828 - Jun 25 2023	16674

Additional baselines can be obtained using Windows version of [PerformanceTest's Manage Baselines](#) feature.

Popular comparisons for Intel Core i5-1235U

As of 28th of June 2023 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i5-1235U	13,630
Intel Core i3-1220P vs Intel Core i5-1235U	14,571 (+6.9%)
Intel Core i5-1245U vs Intel Core i5-1235U	13,522 (-0.8%)
Intel Core i5-1230U vs Intel Core i5-1235U	10,505 (-22.9%)
Intel Core i5-1230U vs Intel Core i5-1235U	10,505 (-22.9%)
Intel Core i5-1345U vs Intel Core i5-1235U	15,667 (+14.9%)
Intel Core i3-1315U vs Intel Core i5-1235U	13,653 (+0.2%)
Intel Core i3-1315U vs Intel Core i5-1235U	13,653 (+0.2%)
Intel Core i5-11400H @ 2.70GHz vs Intel Core i5-1235U	15,932 (+16.9%)



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(%)

[Intel Core i7-1255U vs Intel Core i5-1235U](#)

[13,942](#)
(+2.3%)

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[Intel Core i5-1155G7 @ 2.50GHz vs Intel Core i5-1235U](#)

[10,317](#)
(-24.3%)



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