

## CPU Benchmarks

Over 1,000,000 CPUs Benchmarkd

### 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

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

Compare

Common Most Benchmarkd

AMD vs Intel Market Share

Year on Year Performance

Intel Core i5-1235U

Description: Intel Iris Xe Graphics

Class: Laptop, Mobile/Embedded

Socket: FCBGA1744

Total Cores: 10 Cores, 12 Threads

Performance Cores: 2 Cores, 4 Threads, 1.3 GHz Base, 4.4 GHz Turbo

Efficient Cores: 8 Cores, 8 Threads, 0.9 GHz Base, 3.3 GHz Turbo

Typical TDP: 15 W

TDP Up: 55 W

Cache Size: L1: 928 KB, L2: 6.5 MB,

Memory Support: Max. Memory Size: 64 GB (Up to DDR5 4800 MT/s, Up to DDR4 3200 MT/s, Up to )

Other names: 12th Gen Intel(R) Core(TM) i5-1235U, 12th Gen Intel Core i5-1235U

CPU First Seen on Charts: Q1 2022

CPUMark/\$Price: 44.25

Overall Rank: 631

Last Price Change: \$309.00 USD (2022-01-01)

Average CPU Mark

13675

Single Thread Rating: 3299

Samples: 483\*

\*Margin for error: Low

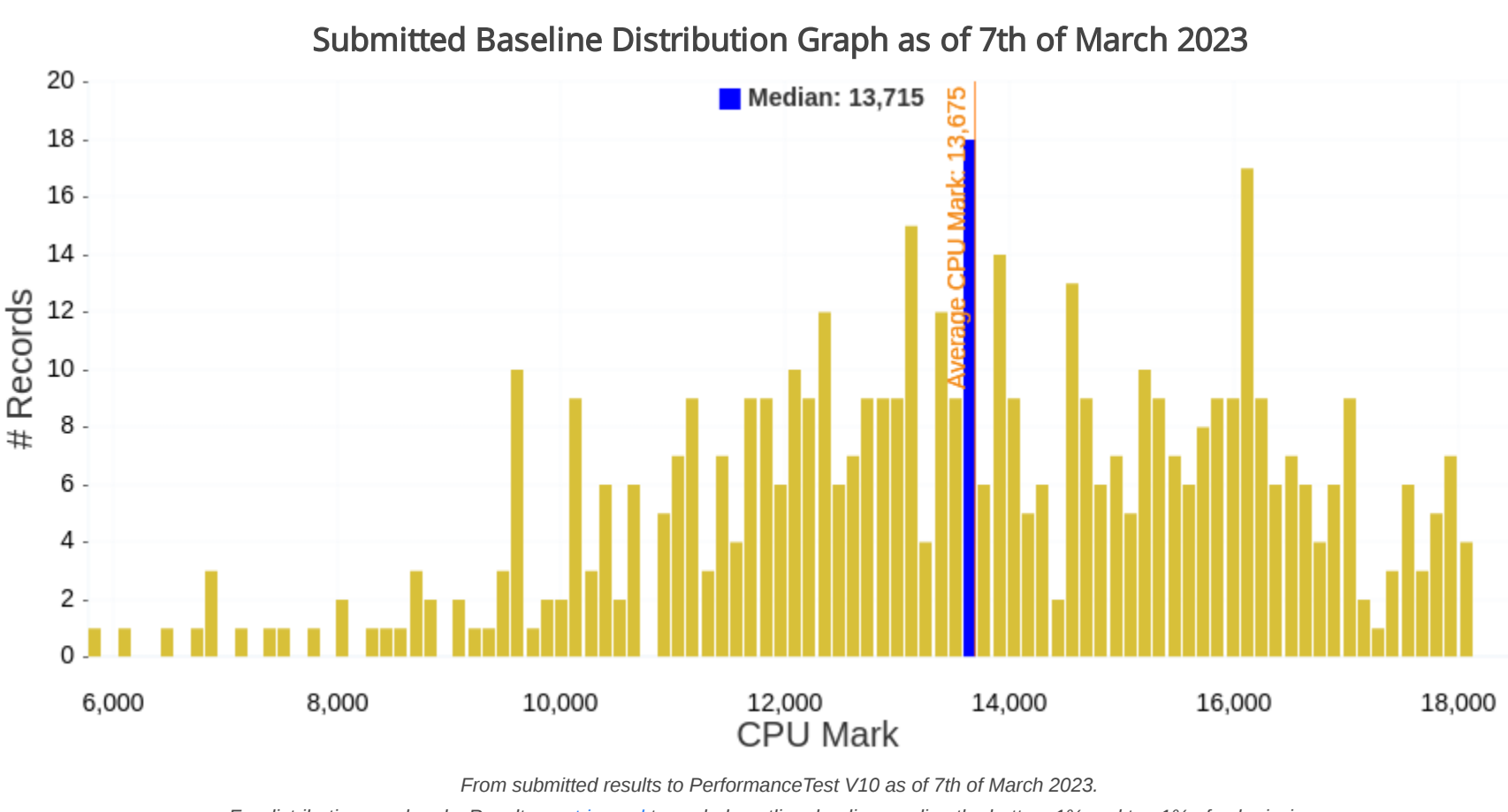
+ COMPARE

CPU Test Suite Average Results for Intel Core i5-1235U

Integer Math	52,346 MOps/Sec
Floating Point Math	34,992 MOps/Sec
Find Prime Numbers	38 Million Primes/Sec
Random String Sorting	18 Thousand Strings/Sec
Data Encryption	9,812 MBytes/Sec
Data Compression	149.8 MBytes/Sec
Physics	743 Frames/Sec
Extended Instructions	8,424 Million Matrices/Sec
Single Thread	3,299 MOps/Sec

From submitted results to PerformanceTest V10 as of 13th of March 2023.

#### CPU Mark Distribution for Intel Core i5-1235U



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

amazon

newegg

BEST BUY

ebay

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

#### 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)	\$599.00 <a href="#">(www.amazon.com)</a>
	HP 2023 Newest 17 17.3" FHD Laptop Computer, 12th Gen Intel 10-Core i5-1235U, 64GB DDR4 RAM, 4TB SSD, AC WiFi, Bluetooth, Backlit Keyboard, Natural Silver, Windows 11, BROAG USB Extension Cable	\$1259.00 <a href="#">(www.amazon.com)</a>
	Lenovo 2023 Newest IdeaPad 1i Laptop, 15.6 inch FHD Display, 10 Core Intel Core i5-1235U, 16GB RAM, 512GB SSD, Intel Iris Xe Graphics, Wi-Fi 6, Windows 11 Home, Cloud Grey, Bundle with JAWFOAL	\$659.99 <a href="#">(www.amazon.com)</a>
	HP Pavilion x360 Convertible Laptop, 12th Gen Intel Core i5-1235U, 12 GB RAM, 256 GB SSD, 15.6" Full HD Touchscreen, Windows 11 Home, Long Battery Life, Backlit Keyboard, HD Webcam (15-er1010n, 2022)	\$690.00 <a href="#">(www.amazon.com)</a>
	Dell Inspiron 14 5420 Notebook - 14.0-inch 16:10 2.2K (2240x1400) Non-Touch Display, Intel Core i5-1235U, 8GB DDR4 RAM, 512GB SSD, Intel UHD Graphics, Intel Wi-Fi 6E, Windows 11 Home - Platinum Silver	\$798.97 <a href="#">(www.amazon.com)</a>

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

As of 13th of March 2023 - Higher results represent better performance

Processor	Average CPU Mark	
AMD Ryzen 7 5800H		21,304
Apple M1 8 Core 3200 MHz		14,218
Apple M1 8 Core 3200 MHz		14,218
Intel Core i5-1235U		13,675
Intel Core i7-10750H @ 2.60GHz		12,146
Intel Core i7-9750H @ 2.60GHz		11,064
Apple A14 Bionic		8,520
AMD Ryzen Embedded V1605B		6,683
Intel Pentium Silver N6005 @ 2.00GHz		5,427
Apple A13 Bionic		5,351
Qualcomm Technologies, Inc SM8150		4,533

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

As of 13th of March 2023 - Higher results represent better value

Processor	CPU Mark / \$Price	
Intel Core i5-1235U		44.25
Intel Core i7-9750H @ 2.60GHz		11.52
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 13th of March 2023 - Higher results represent better performance

Processor	Average Thread Rating	
Apple M1 8 Core 3200 MHz		3,725
Apple M1 8 Core 3200 MHz		3,725
Apple A14 Bionic		3,403
Intel Core i5-1235U		3,299
AMD Ryzen 7 5800H		3,071
Intel Core i7-10750H @ 2.60GHz		2,690
Intel Core i7-9750H @ 2.60GHz		2,462
Apple A13 Bionic		2,222
AMD Ryzen Embedded V1605B		1,937
Qualcomm Technologies, Inc SM8150		1,779
Intel Pentium Silver N6005 @ 2.00GHz		1,769

### Last 5 Baselines for Intel Core i5-1235U

Most recent listed first

Baseline	CPU Mark	
BL1767996 - Mar 13 2023 <span>Excluded</span>		9175
BL5034222 - Mar 11 2023		19080
BL1766400 - Mar 11 2023		12982
BL1765953 - Mar 11 2023		14525
BL1765875 - Mar 10 2023		11812

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

### Popular comparisons for Intel Core i5-1235U

As of 13th of March 2023 - Higher results represent better performance

Processor	Average CPU Mark	
Intel Core i5-1235U		13,675
Intel Core i5-1245U vs Intel Core i5-1235U		13,307 (+2.7%)
Intel Core i3-1220P vs Intel Core i5-1235U		14,870 (+8.7%)
Intel Core i5-1230U vs Intel Core i5-1235U		10,859 (-20.6%)
Intel Core i5-1230U vs Intel Core i5-1235U		10,859 (-20.6%)
Intel Core i5-11400H @ 2.70GHz vs Intel Core i5-1235U		15,906 (+16.3%)
Intel Core i7-1255U vs Intel Core i5-1235U		13,919 (+1.8%)
Intel Core i7-1265U vs Intel Core i5-1235U		13,837 (+1.2%)
Intel Core i5-1245UE vs Intel Core i5-1235U		11,372 (-16.8%)
Intel Core i5-11320H @ 3.20GHz vs Intel Core i5-1235U		10,967 (-19.8%)
Intel Core i7-1250U vs Intel Core i5-1235U		13,446 (+1.7%)
Intel Core i7-1250U vs Intel Core i5-1235U		13,446 (+1.7%)
Intel Core i7-10700E @ 2.90GHz vs Intel Core i5-1235U		16,418 (+20.1%)

#### Software

- > BurnInTest
- > PerformanceTest
- > OSForensics
- > MemTest86
- > WirelessMon
- > Management Console
- > Zoom Search Engine
- > Free Software

#### Hardware

- > USB3.0 Loopback Plugs
- > USB2.0 Loopback Plugs
- > PCIe Test Cards
- > USB Power Delivery Tester
- > Serial and Parallel Loopback Plugs
- > USB Short Circuit Testers

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