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Over 1,000,000 CPUs Benchmarked

AMD Ryzen 5 5600U

Price and performance details for the AMD Ryzen 5 5600U 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.

Is the AMD Ryzen 5 5600U Good for Gaming?

This is relatively new CPU that contains 6 Cores and 12 Threads. Paired with a good videocard, *is this CPU Good for Gaming?* This CPU should be able to play most games. [More ...]

AMD Ryzen 5 5600U

Description: with Radeon Graphics

Class: Laptop	**Socket:** FP6
Clockspeed: 2.3 GHz	**Turbo Speed:** 4.2 GHz
Cores: 6 **Threads:** 12	**Typical TDP:** 15 W
TDP Down: 10 W	**TDP Up** : 25 W

Cache per CPU Package:

Average CPU Mark

15486

Single Thread Rating: 2921
Samples: 562*
*Margin for error: Low

+ COMPARE

L1 Instruction Cache: 6 x 32 KB

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L3 Cache: 16 MB

Other names: AMD Ryzen 5 5600U with Radeon Graphics

CPU First Seen on Charts: Q2 2021

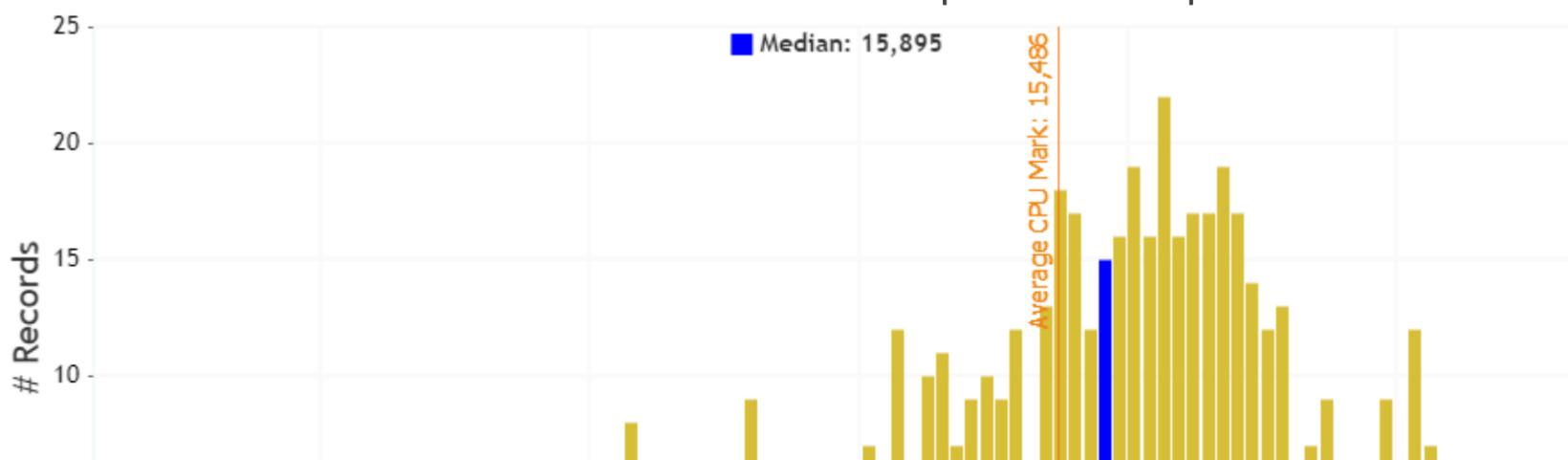**CPUmark/$Price:** NA

Overall Rank: 750

Last Price Change: NA
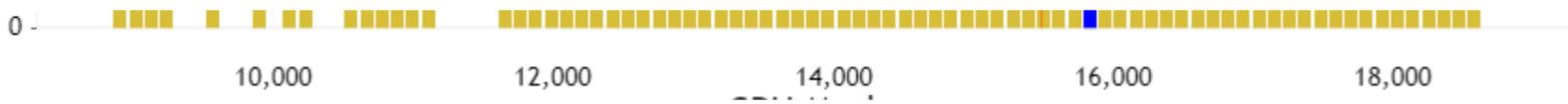
CPU Test Suite Average Results for AMD Ryzen 5 5600U

Integer Math	58,200 MOps/Sec
Floating Point Math	31,111 MOps/Sec
Find Prime Numbers	48 Million Primes/Sec
Random String Sorting	19,399 Thousand Strings/Sec
Data Encryption	11,768 MBytes/Sec
Data Compression	183,075 KBytes/Sec
Physics	697 Frames/Sec
Extended Instructions	11,927 Million Matrices/Sec
Single Thread	2,921 MOps/Sec

From submitted results to PerformanceTest V10 as of 3rd of April 2024.

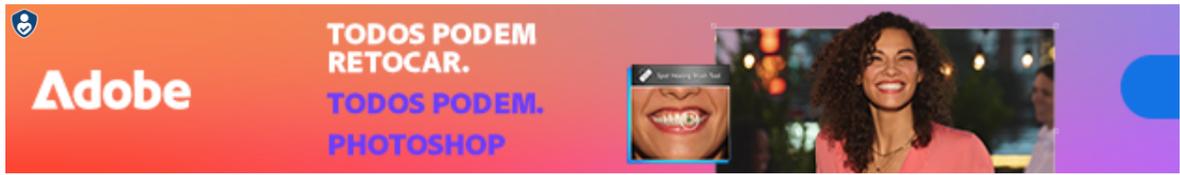### CPU Mark Distribution for AMD Ryzen 5 5600U

Submitted Baseline Distribution Graph as of 3rd of April 2024

CPU Benchmarks ▼

For distribution graph only. Results are trimmed to exclude outliers by disregarding the bottom 1% and top 1% of submissions.

Search for **AMD Ryzen 5 5600U**

from the Featured Merchants below:

Machines with this CPU (or similar)

	Acer Swift X SFX14-41G-R0SG Creator Laptop | 14" Full HD 100% sRGB | AMD Ryzen 5 5600U | NVIDIA RTX 3050 Laptop GPU | 8GB LPDDR4X | 512GB NVMe SSD | Wi-Fi 6 | Backlit Keyboard | Windows 10 Home	$599.00 (www.amazon.com)
	Acer Swift X SFX14-41G-R7YT Creator Laptop | 14" Full HD 100% sRGB | AMD Ryzen 5 5600U | NVIDIA RTX 3050 Laptop GPU | 8GB LPDDR4X | 512GB NVMe SSD | Wi-Fi 6 | Backlit Keyboard | Windows 11 Home, Gold	$638.88 (www.amazon.com)
	acer 2024 Newest Swift X Business Gaming Laptop, 14" FHD Display, AMD Ryzen 5 5600U, NVIDIA GeForce RTX 3050, 8GB RAM, 512GB SSD, Fingerprint Reader, WiFi 6, Backlit KB, Windows 11, with Laptop Stand	$799.99 (www.amazon.com)
	Lenovo IdeaPad 5 Pro Touchscreen Laptop, 14" 2K (2240 x 1400) 16:10 IPS 100% sRGB Display, 6-Core AMD Ryzen 5 5600U, AMD Radeon Graphics, Webcam, Type-C, Backlit KB, Win 11 (16GB RAM | 512B PCIe SSD)	$609.99 (www.amazon.com)
	HP ProBook G8 14" FHD Notebook Business Laptop, AMD Ryzen 5 5600U 6-Cores, 32GB RAM 1TB PCIe SSD, Backlit Keyboard, Webcam, HDMI, WiFi, Wolf Security, Windows 10 Pro, 3in1 Accessories	$849.99 (www.amazon.com)

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

CPU Mark Relative to Top 10 Common Laptop CPUs

As of 3rd of April 2024 - Higher results represent better performance

Processor	Average CPU Mark	
Apple M1 Max 10 Core 3200 MHz		22,013
AMD Ryzen 7 5800H		21,090

AMD Ryzen 7 4800H		18,587

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Apple M2 8 Core 3500 MHz		15,406
Apple M1 8 Core 3200 MHz		14,185
AMD Ryzen 5 5500U		13,082
Intel Core i7-10750H @ 2.60GHz		11,943
Intel Core i7-9750H @ 2.60GHz		10,894
Intel Core i5-1135G7 @ 2.40GHz		9,837

CPU Value (CPU Mark / $Price)

As of 3rd of April 2024 - Higher results represent better value

Processor	CPU Mark / $Price	
Intel Core i7-11800H @ 2.30GHz		52.29
Intel Core i5-1135G7 @ 2.40GHz		31.83
Intel Core i7-9750H @ 2.60GHz		11.35
AMD Ryzen 5 5600U		NA
Apple M1 8 Core 3200 MHz		NA
Apple M2 8 Core 3500 MHz		NA
Apple M1 Max 10 Core 3200 MHz		NA
AMD Ryzen 7 5800H		NA
AMD Ryzen 7 4800H		NA
AMD Ryzen 5 5500U		NA
Intel Core i7-10750H @ 2.60GHz		NA

Single Thread Rating

As of 3rd of April 2024 - Higher results represent better performance

Processor	Average Thread Rating	
Apple M2 8 Core 3500 MHz		3,929

Apple M1 8 Core 3200 MHz		3,705

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AMD Ryzen 7 5800H		3,050
AMD Ryzen 5 5600U		2,921
Intel Core i5-1135G7 @ 2.40GHz		2,691
Intel Core i7-10750H @ 2.60GHz		2,667
AMD Ryzen 7 4800H		2,617
AMD Ryzen 5 5500U		2,445
Intel Core i7-9750H @ 2.60GHz		2,435

Last 5 Baselines for AMD Ryzen 5 5600U

Most recent listed first

Baseline	CPU Mark	
BL5060014 - Mar 31 2024		15338
BL2060814 - Mar 25 2024		16375
BL2060627 - Mar 25 2024		16221
BL5059084 - Mar 20 2024		17200
BL5059081 - Mar 20 2024		17096

Additional baselines can be obtained using Windows version of PerformanceTest's Manage Baselines feature.

Popular comparisons for AMD Ryzen 5 5600U

As of 3rd of April 2024 - Higher results represent better performance

Processor	Average CPU Mark	
AMD Ryzen 5 5600U		15,486
AMD Ryzen 5 5600H vs AMD Ryzen 5 5600U		17,085 *(+10.3%)*
Intel Core i5-11400H @ 2.70GHz vs AMD Ryzen 5 5600U		15,757 *(+1.8%)*
AMD Ryzen 5 5500U vs AMD Ryzen 5 5600U		13,082 *(-15.5%)*
AMD Ryzen 7 5700U vs AMD Ryzen 5 5600U		15,866 *(+2.5%)*
Intel Core i5-11260H @ 2.60GHz vs AMD Ryzen 5 5600U		15,762 *(+1.8%)*

AMD Ryzen 5 PRO 5650U _{vs AMD Ryzen 5 5600U}		14,919 *(-3.7%)*

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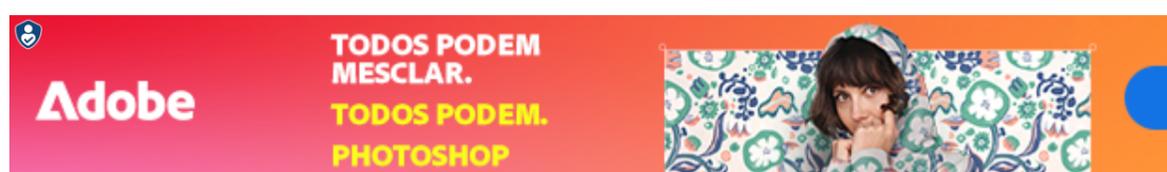|		
Intel Xeon W-11855M @ 3.20GHz _{vs AMD Ryzen 5 5600U}		18,268 *(+18.0%)*
Intel Core i5-11500H @ 2.90GHz _{vs AMD Ryzen 5 5600U}		16,227 *(+4.8%)*
Intel Core i7-10750H @ 2.60GHz _{vs AMD Ryzen 5 5600U}		11,943 *(-22.9%)*
AMD Ryzen 7 4800H _{vs AMD Ryzen 5 5600U}		18,587 *(+20.0%)*
AMD Ryzen 7 5800U _{vs AMD Ryzen 5 5600U}		18,573 *(+19.9%)*

Is the AMD Ryzen 5 5600U Good for Gaming?

As of 3rd of April 2024 - Higher results represent better performance

Processor	Relative Gaming Score	
Intel Core i9-14900HX		7,150
Intel Core i7-14650HX		7,066
Intel Core i9-13950HX		6,997
AMD Ryzen 9 7945HX3D		6,880
Intel Core i9-13900HX		6,879
Intel Core i9-13980HX		6,700
Intel Core Ultra 7 165H		6,460
Intel Core i7-13850HX		6,396
Intel Core i9-13905H		6,257
Intel Core i9-13900HK		6,206
Intel Core Ultra 9 185H		6,056
Intel Core i7-13800H		5,959
AMD Ryzen 5 5600U		2,799

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