

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

AMD Ryzen 7 PRO 8700G

Benchmarks for the AMD Ryzen 7 PRO 8700G can be found below. Release dates, price and performance comparisons are also listed when available. 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 7 PRO 8700G Good for Gaming?

This is relatively new CPU that contains 8 Cores and 16 Threads. The AMD Ryzen 7 PRO 8700G also has reasonable threaded performance that will serve well in games. Paired with a good [videocard](#), *is this CPU Good for Gaming?* Yes, this would be a suitable CPU for gaming. [\[More ...\]](#)

AMD Ryzen 7 PRO 8700G	
Description: w/ Radeon 780M Graphics	
Class: Desktop	Socket: AM5
Clockspeed: 4.2 GHz	Turbo Speed: 5.1 GHz
Cores: 8 Threads: 16	Typical TDP: 65 W
TDP Down: 45 W	
Cache per CPU Package: L1 Instruction Cache: 8 x 32 KB L1 Data Cache: 8 x 32 KB L2 Cache: 8 x 1024 KB L3 Cache: 16 MB	
Other names: AMD Ryzen 7 PRO 8700G w/ Radeon 780M Graphics	
CPU First Seen on Charts: Q2 2024	

Average CPU Mark



Multithread Rating

31004

Single Thread Rating

3944

Samples: 55*

*[Margin for error](#): Low

+ COMPARE

Overall Rank:

446th fastest in multithreading out of 5444 CPUs



CPU Benchmarks



Last Price Change: NA

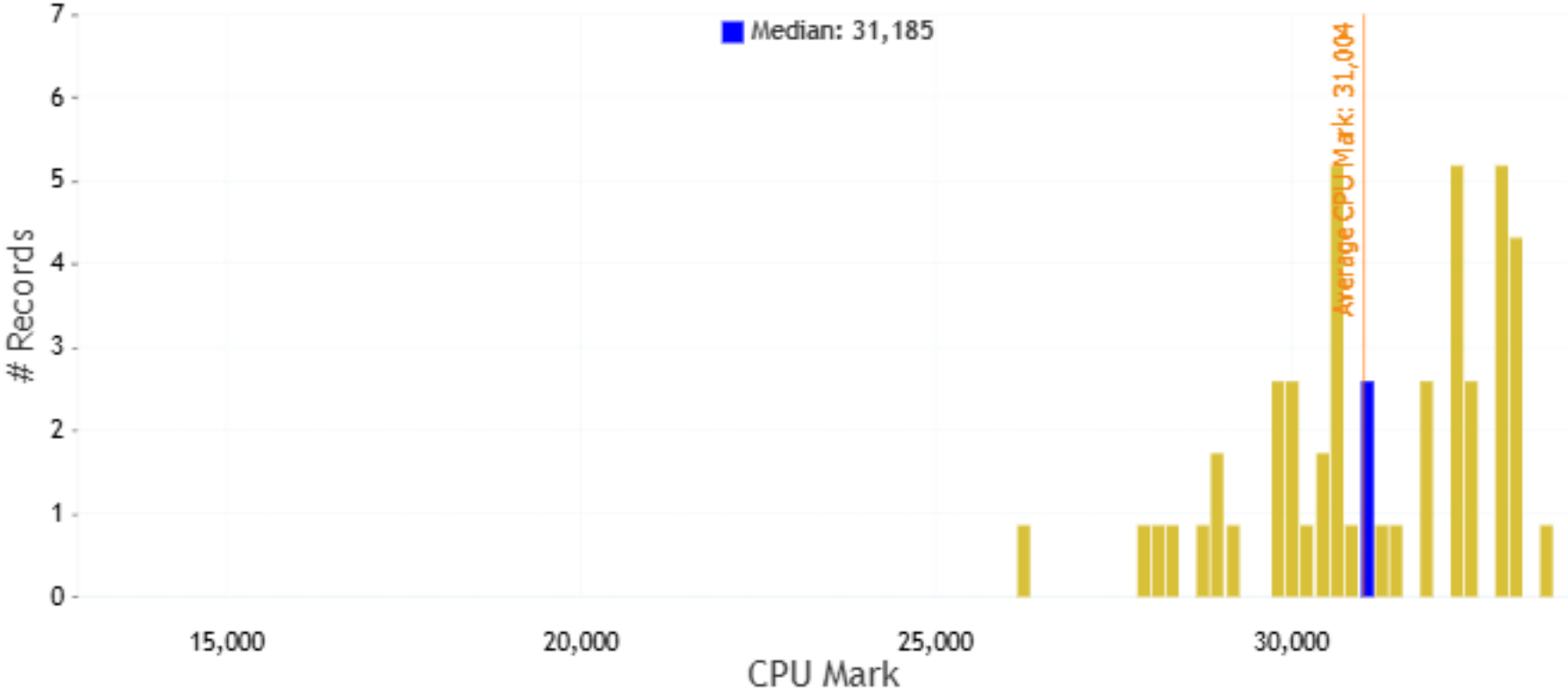
CPU Test Suite Average Results for AMD Ryzen 7 PRO 8700G

Integer Math	103,341 MOps/Sec
Floating Point Math	64,412 MOps/Sec
Find Prime Numbers	94 Million Primes/Sec
Random String Sorting	46,218 Thousand Strings/Sec
Data Encryption	22,666 MBytes/Sec
Data Compression	382,642 KBytes/Sec
Physics	1,438 Frames/Sec
Extended Instructions	29,074 Million Matrices/Sec
Single Thread	3,944 MOps/Sec

From submitted results to PerformanceTest V10 as of 12th of November 2025.

CPU Mark Distribution for AMD Ryzen 7 PRO 8700G

Submitted Baseline Distribution Graph as of 11th of November 2025








From submitted results since PerformanceTest V10 as of 11th of November 2025.

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



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Machines with this CPU (or similar)

	HP Elite 805 G9 Desktop Computer - AMD Ryzen 7 8700G - 16 GB - 512 GB SSD - Small Form Factor - Smart Buy Plus - AMD Pro 665 Chip - Windows 11 Pro - AMD Radeon 780M Graphics DDR5 SDRAM - English Keybo	\$1097.83 <small>(www.amazon.com)</small>
	Lenovo ThinkCentre M75s Gen 5 Small Business Desktop, AMD Ryzen 7 PRO 8700G 4.20 GHz, 32GB RAM DDR5, 1TB SSD,WiFi 6, AMD Radeon 780M Graphics, Windows 11 Pro,Black	\$1069.00 <small>(www.amazon.com)</small>
	HP OmniDesk Desktop PC, AMD Ryzen 7 8700G, 32 GB RAM, 1 TB SSD, AMD Radeon 740M Graphics, Keyboard & Mouse, Windows 11 Pro, Microsoft Copilot, (2025)	\$799.00 <small>(www.amazon.com)</small>
	Lenovo ThinkCentre M75s Gen 5 12TA0014US Desktop Computer - AMD Ryzen 7 PRO 8700G - 32 GB - 512 GB SSD - Small Form Factor - Black - AMD PRO 665 Chip - Windows 11 Pro - AMD Radeon 780M Graphics DDR5 S	\$1195.50 <small>(www.amazon.com)</small>
	Centaurus Druid 2.7 Gaming PC, AMD Ryzen 7 8700G 8-Core 5.1GHz, 32GB DDR5 RAM, Radeon 760M, 1TB NVMe SSD, Windows 11 PRO, WiFi, RGB LEDs. Custom Desktop for Gamers and Professionals. (Ryzen 7 8700G)	\$899.00 <small>(www.amazon.com)</small>


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CPU Mark Relative to Top 10 Common Desktop CPUs

As of 12th of November 2025 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i9-14900K	58,563
Intel Core i9-13900K	58,419
AMD Ryzen 9 5900X	38,959
AMD Ryzen 7 PRO 8700G	31,004
Apple M1 Max 10 Core 3200 MHz	22,152
AMD Ryzen 5 5600X	21,847
Intel Core i5-12400F	19,517
Intel Core i9-9900K @ 3.60GHz	18,115

Apple M2 8 Core 3500 MHz	15,651
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 **CPU Benchmarks** ▼

CPU Value (CPU Mark / \$Price)

As of 12th of November 2025 - Higher results represent better value

Processor	CPU Mark / \$Price
AMD Ryzen 5 3600	264.77
AMD Ryzen 5 5600X	170.71
AMD Ryzen 9 5900X	144.83
Intel Core i5-12400F	128.61
Intel Core i9-14900K	127.59
Intel Core i9-13900K	104.32
Intel Core i9-9900K @ 3.60GHz	47.80
AMD Ryzen 7 PRO 8700G	NA
Apple M1 8 Core 3200 MHz	NA
Apple M2 8 Core 3500 MHz	NA
Apple M1 Max 10 Core 3200 MHz	NA

Single Thread Rating

As of 12th of November 2025 - Higher results represent better performance

Processor	Average Thread Rating
Intel Core i9-14900K	4,698
Intel Core i9-13900K	4,602
AMD Ryzen 7 PRO 8700G	3,944
Apple M2 8 Core 3500 MHz	3,892
Apple M1 Max 10 Core 3200 MHz	3,834
Apple M1 8 Core 3200 MHz	3,679
Intel Core i5-12400F	3,485

AMD Ryzen 5 5600X	3,364
AMD Ryzen 5 3600	2,561

Last 5 Baselines for AMD Ryzen 7 PRO 8700G

Most recent listed first

Baseline	CPU Mark
BL3043837 - Nov 11 2025	30127
BL3040528 - Nov 09 2025	29828
BL2975685 - Oct 14 2025	28933
BL2948670 - Oct 02 2025	32648
BL2948643 - Oct 02 2025	32395

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

Popular comparisons for AMD Ryzen 7 PRO 8700G

As of 12th of November 2025 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 PRO 8700G	31,004
AMD Ryzen 7 9700X vs AMD Ryzen 7 PRO 8700G	37,149 (+19.8%)
AMD Ryzen 7 8700G vs AMD Ryzen 7 PRO 8700G	31,646 (+2.1%)
AMD Ryzen 9 8945HS vs AMD Ryzen 7 PRO 8700G	29,609 (-4.5%)
AMD Ryzen 7 8845HS vs AMD Ryzen 7 PRO 8700G	28,472 (-8.2%)
AMD Ryzen 7 5800XT vs AMD Ryzen 7 PRO 8700G	28,002 (-9.7%)
AMD Ryzen 7 5700X3D vs AMD Ryzen 7 PRO 8700G	26,301 (-15.2%)
Intel Core i5-14500 vs AMD Ryzen 7 PRO 8700G	31,288 (+0.9%)
AMD Ryzen 5 9600X vs AMD Ryzen 7 PRO 8700G	29,987 (-3.3%)
Intel Core i5-14400F vs AMD Ryzen 7 PRO 8700G	25,691 (-17.1%)
Intel Core i5-14400 vs AMD Ryzen 7 PRO 8700G	25,333 (-18.3%)

Is the AMD Ryzen 7 PRO 8700G Good for Gaming?

As of 12th of November 2025 - Higher results represent better performance

Processor	Relative Gaming Score
AMD Ryzen 9 9900X3D	12,414
AMD Ryzen 7 9800X3D	12,136
AMD Ryzen 9 9950X3D	11,255
AMD Ryzen 9 7900X3D	10,802
AMD Ryzen 5 7600X3D	10,505
Intel Core Ultra 9 285K	10,496
AMD Ryzen 7 7800X3D	10,271
AMD Ryzen 9 7950X3D	9,778
AMD Ryzen 9 9955HX3D	9,622
Intel Core Ultra 7 265K	9,499
Intel Core Ultra 9 285	9,482
Intel Core Ultra 5 245K	9,419
AMD Ryzen 7 PRO 8700G	3,674

Software

- [BurnInTest](#)
- [PerformanceTest](#)
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- [WirelessMon](#)
- [Management Console](#)
- [Zoom Search Engine](#)
- [Free Software](#)

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