

## 3900x system power consumption

How much power does a 3900x take?

In the graph below we tested power use of the system across multiple situations from idle, to Prime 95 Small FFT (with FMA3/AVX). The 3900X pulled the most power during the AIDA64 FPU test with 220 W. What's interesting, that's 5 W lower than the 2700X in our previous testing despite adding 50% more cores.

How much power does a Ryzen 9 3900x use?

The Ryzen 9 3900X pulls 142W at stock settings, and that increases to 168W when we engage the new "Auto OC" and Precision Boost Overdrive features. That is 29W more than the stock Core i9-9900K during this test, but the 3900X comes with four more cores, so performance efficiency will be the real judge of power consumption.

Is AMD Ryzen 9 3900x a good CPU?

Single-core performance and 1080p gaming a touch behind on some benchmark tests. No integrated graphics. With more cores and threads than its chief like-priced Intel competitor, AMD's Ryzen 9 3900X is an excellent 12-core beast of a CPU to power a high-end gaming rig or a multimedia editing station.

Is the AMD 3900x a good CPU?

The 3900X is also impressive given that it's a 12-core CPU. While posting substantial performance improvements of the 12-core Threadripper counterparts, the 3900X still manages to be significantly less thermally constrained thanks to its much lower power consumption, peaking in at 142W.

What is the difference between i9-9900K and Ryzen 9 3900x?

For most people, even enthusiasts and power users, the gaming and single-core differences between the Core i9-9900K and the Ryzen 9 3900X (and for that matter, the Ryzen 7 3700X) are modest, but the core- and thread-count advantage is far from it. And there, the Ryzen 9 3900X delivers big-time.

Is Ryzen 9 3900x better than Ryzen 3700x?

The same goes for the Ryzen 9 3900X, there were gains to be had with overclocking which were even more significant than the 3700X. A shot of Ryzen master was included with this Prime95 test just to have a comparison with HWInfo for accuracy of the temperature readings.

Total System Power Draw. Cinebench R20 behaves as expected: The system power draw drops by a healthy 65W in Eco Mode. This is the total system power draw, measured at the outlet, mind you. Total System Power Draw. Now, have a look at the power consumption profile when running Assassins' Creed Origins.

The AC system power consumption was monitored by an external system with the Ryzen 9 3900X system connected to a WattsUp Pro power meter and being polled by the Phoronix Test Suite. First up is a look at the AC power consumption from a cold boot through loading the desktop and then idling for five minutes. During

this idle period, Ubuntu 19.04 ...

The AMD Ryzen 9 3900X is a desktop processor with 12 cores, launched in July 2019, at an MSRP of \$499. ... the Ryzen 9 3900X consumes a good deal of power, so decent cooling is needed. ... (and the right memory modules) you can go even higher. For communication with other components in the system, Ryzen 9 3900X uses a PCI-Express Gen 4 ...

This tweet by @vpcf90 shows their testing of undervolting vs cinebench vs power consumption and reducing PPT vs cinebench vs power consumption. Specifically, you should pay attention to this graph . We can see that reducing PPT is a significantly more efficient way of reducing power consumption while retaining as much performance as possible ...

Compare the AMD Ryzen 9 9900X CPU with the AMD Ryzen 9 3900X in terms of core types, core counts, frequencies, and cache ... We've found that lower base clock speeds result in lower power consumption. ... normal operating conditions. However, the actual clock speed of the CPU can vary depending on the workload and the system power state.

You could try HWinfo64 if you want to check the actual split, it does show power consumption for SoC and cores separately. No clue about F@H though, i've a friend whos 1700X runs for hours if you use Blend or In-place but crashes after a ...

The problem might be the power supply. I could be wrong (JohnnyGuru can answer), but the older CX series might not have supported the deeper power states. The older power supply designs used to shut down when the BIOS went into those ultra power saving modes. This became an issue starting around the intel Intel 6000 series IIRC.

Compare the AMD Ryzen 9 9700X CPU with the AMD Ryzen 9 3900X in terms of core types, core counts, frequencies, and cache ... We've found that lower base clock speeds result in lower power consumption. ... normal operating conditions. However, the actual clock speed of the CPU can vary depending on the workload and the system power state.

The 3900X has a TDP (thermal design power) of 105 watts, which is higher than some of its competitors, such as the Intel Core i9-9900K, which has a TDP of 95 watts. However, the 3900X's power consumption is offset by its superior performance and efficiency, thanks to its 7nm manufacturing process and advanced power management features.

Compare the AMD Ryzen 7 5800X3D CPU with the AMD Ryzen 9 3900X in terms of core types, core counts, frequencies, and cache ... We've found that lower base clock speeds result in lower power consumption. ... normal operating conditions. However, the actual clock speed of the CPU can vary depending on the workload and the system power state.

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Because I don't want to completely roll out all the background information and the test system again, but simply continue where I left off recently due to time constraints. ... (light blue for Ryzen 9 3900X, white for 3900XT), the right Y-axis shows the measured power consumption (red for Ryzen 9 3900X, yellow for 3900XT).

It evaluates how your power supply converts AC to DC power. The certification comes in various levels, such as Bronze, Silver, Gold, Platinum, and Titanium, with Titanium being the most efficient. Higher 80 PLUS ratings mean less power is wasted as heat, leading to energy savings and reducing overall energy consumption.

According to AMD, the 3900X should have a typical power consumption of 105 Watts. This is good, considering the number of cores, cache and clock speeds offered by this processor. ... Operating System: Windows 10 Pro x64 with May 2019 Update; To get a more realistic idea of what the AMD Ryzen 9 3900X has to offer, we also compared it with its ...

Compare the AMD Ryzen 9 3900X CPU with the AMD Ryzen 9 3900 in terms of core types, core counts, frequencies, ... We've found that lower base clock speeds result in lower power consumption. ... normal operating conditions. However, the actual clock speed of the CPU can vary depending on the workload and the system power state.

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