



AMD Ryzen 5 4500 6 Core AM4 Processor, 12 Threads, 3.6GHz up to 4.1GHz Boost, 11MB Cache, 65W, with Wraith Stealth Cooler, No Graphics

**Platform**

Desktop

**Product Family**

AMD Ryzen Processors

**Product Line**

AMD Ryzen 5 Desktop Processors

**Consumer Use**

Yes

**Former Codename**

"Renoir"

**Architecture**

"Zen 2"

**# of CPU Cores**

6

**Multithreading (SMT)**

Yes

**# of Threads**

12

**Max. Boost Clock**

Up to 4.1GHz

**Base Clock**

3.6GHz

**L1 Cache**

384KB

**L2 Cache**

3MB

**L3 Cache**

8MB

**Default TDP**

65W

**Processor Technology for CPU Cores**

TSMC 7nm FinFET

**CPU Compute Die (CCD) Size**

180mm<sup>2</sup>

**Package Die Count**

1

**Unlocked for Overclocking**

Yes

**CPU Socket**

AM4

**Socket Count**

1P

**Supporting Chipsets**

X570

X470

X370

B550

B450

B350

A520

A320

### **CPU Boost Technology**

Precision Boost 2

### **Instruction Set**

x86-64

### **Supported Extensions**

AES, AMD-V, AVX, AVX2, FMA3, MMX(+), SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2, SSE4A, SSSE3, x86-64

### **Thermal Solution (PIB)**

AMD Wraith Stealth

### **Max. Operating Temperature (Tjmax)**

95°C

### **Launch Date**

4/4/2022

### **OS Support**

Windows 11 - 64-Bit Edition

Windows 10 - 64-Bit Edition

RHEL x86 64-Bit

Ubuntu x86 64-Bit

### **USB Type-C Support**

Yes

### **Native USB 3.2 Gen 2 (10Gbps) Ports**

4

### **Native USB 3.2 Gen 1 (5Gbps) Ports**

0

### **Native USB 2.0 (480Mbps) Ports**

0

**Native SATA Ports**

2

**PCI Express Version**

PCIe 3.0

**Native PCIe Lanes (Total/Usable)**

24/20

**NVMe Support**

Boot, RAID0, RAID1, RAID10

**System Memory Type**

DDR4

**Memory Channels**

2

**Max. Memory**

128GB

**System Memory Subtype**

UDIMM

**System Memory Specification**

Up to 3200MHz

**Max Memory Speed**

2x1R - DDR4-3200

2x2R - DDR4-3200

4x1R - DDR4-2933

4x2R - DDR4-2667

**ECC Support**

No

**Integrated Graphics**

No

**Graphics Model**

Discrete Graphics Card Required