



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

180mm²

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