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Product Specification Sheet

100-100000457BOX

AMD Ryzen 5 5500 6 Cores 12 Threads AM4 Socket Processor

Product Overview

AMD Ryzen 5 AM4 Socket Processor - AMD Ryzen 5 5500 Processor, 3.6GHz Base Clock, Up to 4.2GHz Boost Clock Frequency, 6 Cores, 12 Threads, AMD 7nm Zen 3 Architecture, Up to DDR4-3200MHz Memory Supported, PCIe Version 3.0, 65W TDP, Desktop Compatible, Retail Box



Specifications

About this product

The AMD Ryzen 5 5500 is a 6-core, 12-thread AM4 desktop processor with a 3.6GHz base clock and up to 4.2GHz boost clock. Built on AMD 7nm Zen 3 architecture, it supports DDR4-3200MHz memory and PCIe 3.0 for responsive everyday computing, productivity and gaming. Buy now from our website for a capable AMD Ryzen 5 desktop processor solution.

Overview Summary

AMD Ryzen 5 5500 AM4 Desktop Processor

The AMD Ryzen 5 5500 is a desktop CPU designed for systems using the AM4 socket. It features 6 cores and 12 threads, providing multi-threaded processing for everyday computing, productivity, content creation and gaming workloads. Its 3.6GHz base clock can increase to up to 4.2GHz boost clock frequency when additional processing performance is required.

Based on AMD 7nm Zen 3 architecture, the Ryzen 5 5500 supports DDR4-3200MHz memory and PCIe 3.0 connectivity. With a 65W TDP and desktop compatibility, it is suitable for building or upgrading an AM4-based PC. This retail box processor provides a practical foundation for a balanced desktop computer system.

Performance tier: Mainstream desktop processor

Uses: Desktop computing, gaming, productivity, multitasking, content creation, home computing

Overview

The AMD Ryzen 5 5500 is a 6 cores and 12 threads with 3.6 GHz base and up to 4.2 GHz boost, delivering strong multitasking and gaming performance on a 65W TDP design.amd+2Supports DDR4-3200MHz memory (dual-channel, up to 128GB), 16MB L3 cache, and PCIe 3.0 (24 lanes) for GPUs and NVMe SSDs on AM4 platforms.techpowerup+3Includes the AMD Wraith Stealth cooler, is unlocked for overclocking on supported boards, and integrates Zen 3 features like Precision Boost 2, StoreMI, and VR-Ready Premium.

Description

The AMD Ryzen 5 5500 is a 6-core, 12-thread desktop processor designed for computers using the AMD AM4 socket. It combines a 3.6GHz base clock with a maximum boost clock of up to 4.2GHz, giving the processor the ability to increase operating frequency when additional processing performance is required.

The processor is based on AMD 7nm Zen 3 architecture and supports DDR4-3200MHz system memory. The 6-core and 12-thread configuration is designed to handle multiple processing tasks simultaneously, making the Ryzen 5 5500 suitable for general desktop computing, productivity applications, multitasking, gaming and selected content creation workloads.

PCIe 3.0 support provides connectivity for compatible expansion hardware, while the 65W TDP is suited to desktop systems designed around the processor's specified power characteristics. The AM4 socket design makes the processor compatible with supported AM4 desktop platforms, subject to motherboard BIOS and platform compatibility requirements.

This is a retail box AMD Ryzen 5 5500 processor intended for desktop PC builds and upgrades. Buyers should verify motherboard compatibility and BIOS support before installation.

Features

The AMD Ryzen 5 5500 combines Zen 3 architecture, 6-core processing and 12-thread multi-threading in an AM4 desktop processor platform.

- 6-core, 12-thread processor for multi-threaded desktop workloads
- 3.6GHz base clock frequency
- Up to 4.2GHz boost clock frequency
- AMD 7nm Zen 3 architecture
- AM4 socket desktop processor
- Supports DDR4-3200MHz memory
- PCIe 3.0 support
- 65W TDP
- Suitable for desktop PC builds and compatible AM4 upgrades
- Retail box processor packaging

What's in the Box

- AMD Ryzen 5 5500 processor
- Retail box packaging

Specifications

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Specifications	
Product Code	100-100000457BOX
General Details	
Name	AMD Ryzen 5 5500
Family	Ryzen
Series	Ryzen 5000 Series
Form Factor	Desktops, Boxed Processor

Market Segment	Mainstream Desktop
Regional Availability	Global, China, NA, EMEA, APJ, LATAM
Former Codename	Cezanne
Processor Architecture	Zen 3
# of CPU Cores	6
Multithreading (SMT)	Yes
# of Threads	12
Max. Boost Clock	Up to 4.2 GHz
Base Clock	3.6 GHz
L1 Cache	384 KB
L2 Cache	3 MB
L3 Cache	16 MB
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
Supporting Chipsets	X570, X470, X370, B550, B450, B350, A520
CPU Boost Technology	Precision Boost 2
Instruction Set	x86-64
Supported Extensions	AES, AMD-V, AVX, AVX2, FMA3, MMX-plus, SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2, SSE4A, SSSE3, x86-64
Thermal Solution (PIB)	AMD Wraith Stealth
Max. Operating Temperature (Tjmax)	90degreesC
***OS Support**	Windows 11 - 64-Bit Edition, Windows 10 - 64-Bit Edition, RHEL x86 64-Bit, Ubuntu x86 64-Bit
Connectitivy	
Native USB 4 (40Gbps)	0
Native USB 3.2 Gen 2 (10Gbps)	4
Native USB 3.2 Gen 1 (5Gbps)	0
Native USB 2.0 (480Mbps)	0
Native SATA Ports	2
PCI Express Version	PCIe 3.0
Native PCIe Lanes (Total/Usable)	24, 20

Additional Usable PCIe Lanes from Motherboard	X570
	16x Gen 3
	X470
	2x Gen 3, 8x Gen 2
NVMe Support	Boot, RAID0, RAID1, RAID10
System Memory Type	DDR4
Memory Channels	2
Max. Memory	128 GB
System Memory Subtype	UDIMM
System Memory Specification	Up to 3200 MT/s
Max Memory Speed	2x1R
	DDR4-3200
	2x2R
	DDR4-3200
	4x1R
	DDR4-2933
	4x2R
	DDR4-2667
ECC Support	No
Graphics Capabilities	
Graphics Model	Discrete Graphics Card Required

FAQ

What is the AMD Ryzen 5 5500?

The AMD Ryzen 5 5500 is a desktop processor with 6 cores and 12 threads, a 3.6GHz base clock and up to 4.2GHz boost clock. It uses AMD Zen 3 architecture and the AM4 socket.

How many cores and threads does the Ryzen 5 5500 have?

The AMD Ryzen 5 5500 has 6 CPU cores and 12 processing threads.

What is the maximum boost clock of the Ryzen 5 5500?

The Ryzen 5 5500 has a maximum boost clock frequency of up to 4.2GHz.

What socket does the AMD Ryzen 5 5500 use?

The AMD Ryzen 5 5500 uses the AM4 CPU socket and is intended for compatible AMD AM4 desktop platforms.

What memory does the Ryzen 5 5500 support?

The processor supports DDR4 memory with speeds up to DDR4-3200MHz.

What PCIe version does the Ryzen 5 5500 support?

The AMD Ryzen 5 5500 supports PCIe 3.0.

What is the TDP of the AMD Ryzen 5 5500?

The Ryzen 5 5500 has a specified TDP of 65W.

What can the AMD Ryzen 5 5500 be used for?

The processor is suitable for compatible desktop systems used for everyday computing, productivity, multitasking, gaming and selected content creation workloads.

Is the AMD Ryzen 5 5500 compatible with every AM4 motherboard?

The processor uses the AM4 socket, but motherboard compatibility depends on the specific motherboard model and BIOS support. Check the motherboard manufacturer's compatibility information before installation.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/100-100000457BOX-AMD-Ryzen-5-5500-6-Cores-12-Threads-AM4-Socket-Processor-p-340861.php

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