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Product Specification Sheet

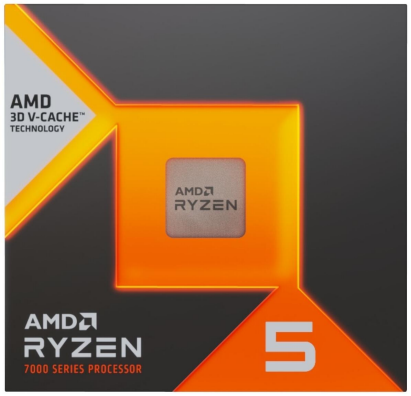
100-100001904WOF

AMD Ryzen 5 7500X3D 6 Core 4.0GHz up to 4.5 GHz Socket AM5 Processor

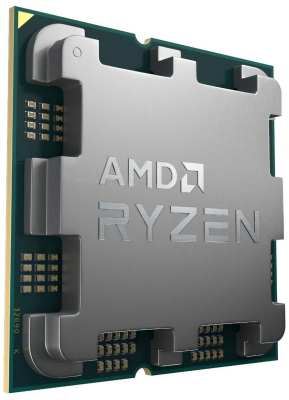
Product Overview

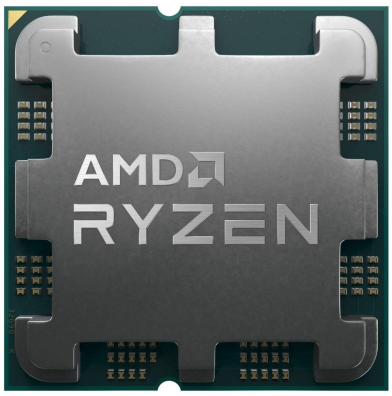
AMD Ryzen 5 7500X3D 6 Core 4.0GHz up to 4.5 GHz Socket AM5 Processor, 384 KB L1 Cache, 6 MB L2 Cache, 96 MB L3 Cache, Raphael AM5 former codename, Zen 4 Processor Architecture, 6 CPU Cores, 12 threads, 65W Default TDP, No CPU Cooler











Specifications

Overview Summary:

The AMD Ryzen 5 7500X3D is engineered for gamers and content creators who demand top-tier performance. With 6 cores and 12 threads, it supports lightning-fast processing speeds up to 4.5GHz, making it ideal for demanding applications such as video editing, 3D rendering, and high-level gaming. The advanced 3D V-Cache technology and support for PCIe 5.0 and DDR5 memory ensure smooth and efficient performance, while the unlocked multiplier allows for further customization with overclocking. For anyone looking to build a future-proof, high-performance system, the Ryzen 5 7500X3D is an excellent choice. Shop now and experience unmatched speed and reliability.

Performance tier: High-Performance

Uses: Gaming, Content Creation, Video Editing, 3D Rendering, Overclocking

Overview:

AMD Ryzen 5 7500X3D Processor: Unmatched Performance for Gamers and Creators
The AMD Ryzen 5 7500X3D is a powerful gaming and productivity processor built for users who demand top-tier performance. With advanced AMD 3D V-Cache technology and the cutting-edge Zen 4 architecture, this processor pushes the boundaries of what's possible in both gaming and creative workflows. Featuring up to 6 cores, 12 threads, and boost speeds reaching 4.5GHz, the Ryzen 5 7500X3D excels in multi-threaded tasks and high-performance gaming scenarios.

Description:

Designed for gamers, content creators, and professionals, the AMD Ryzen 5 7500X3D is a high-performance chip that brings exceptional speed and responsiveness. With its innovative 3D V-Cache technology, it delivers enhanced game performance and reduced latency, making it ideal for next-gen gaming and complex creative applications. Featuring PCIe 5.0 support, DDR5 memory compatibility, and ultra-fast connectivity options like Wi-Fi 6E, this processor ensures you're always ahead of the curve. Whether you're editing high-resolution videos, rendering 3D scenes, or playing the latest AAA games, the Ryzen 5 7500X3D is engineered to provide unparalleled speed and efficiency.

Features:

Incredible Multi-Core Performance for Gamers and Creators
Thanks to the Ryzen 5 7500X3D's 6-core, 12-thread architecture, users can experience smooth and responsive performance across a range of demanding applications. With a base clock of 4.0GHz and the ability to boost up to 4.5GHz, this processor can easily handle both gaming and content creation workflows. The combination of the powerful "Zen 4" cores and advanced 3D V-Cache technology gives users a noticeable performance boost, ensuring a fluid gaming experience with fewer slowdowns and lag.

Maximize Speed and Storage with PCIe 5.0 and DDR5 Support
The AMD Ryzen 5 7500X3D supports the latest PCIe 5.0 interface, which provides faster data transfer rates for storage and GPU devices. This enables quicker load times and a smoother gaming or content creation experience. The processor also supports DDR5 memory, offering improved bandwidth and lower power consumption compared to previous generations, which is essential for maximizing performance in data-intensive tasks like video editing, 3D rendering, and gaming.

Advanced Cooling and Overclocking Features:

With an unlocked multiplier, the Ryzen 5 7500X3D allows enthusiasts to take advantage of Precision Boost Overdrive (PBO) and Curve Optimizer for advanced overclocking capabilities. While the processor itself does not come with a cooler, users can pair it with high-performance cooling solutions to achieve even greater clock speeds and efficiency. The thermal solution is

designed to support demanding tasks while maintaining stable performance at high temperatures, with a maximum operating temperature of 89degreesC.

Effortless Compatibility with the Latest Platforms
The Ryzen 5 7500X3D is built on the latest AM5 socket platform and is compatible with cutting-edge motherboards and systems. It supports up to 128GB of DDR5 memory and is optimized for dual-channel memory configurations to enhance overall system performance. Additionally, it offers robust support for NVMe drives, including boot and RAID configurations, to ensure faster data access and storage management.

Key Highlights:

- Boost Clock up to 4.5GHzfor lightning-fast processing speeds.
- 6 Cores and 12 Threadsprovide exceptional multi-threading performance.
- AM5 Platformcompatibility ensures support for the latest technologies.
- PCIe 5.0 and DDR5 support for enhanced storage and memory performance.
- AMD EXPO Technologyenables fine-tuning of memory speeds for optimal performance.

Full Specifications:

- Platform: Desktop
- Core Count: 6
- Thread Count: 12
- Max Boost Clock: Up to 4.5GHz
- Base Clock: 4.0GHz
- Cache: - L1 Cache: 384KB
- L2 Cache: 6MB
- L3 Cache: 96MB
- Default TDP: 65W
- Integrated Graphics: AMD Radeon (2 Cores, 2200 MHz)
- Overclocking: Supports PBO and Curve Optimizer
- Socket: AM5
- Memory: Dual-channel DDR5 (up to 128GB)
- Maximum Memory Speeds: - 2x1R DDR5-5200
- 2x2R DDR5-5200
- 4x1R DDR5-3600
- 4x2R DDR5-3600
- Thermal Solution: None (cooler sold separately)
- Operating System Support: Windows 10/11 (64-bit), RHEL x86 64-bit, Ubuntu x86 64-bit

What's in the Box:

- AMD Ryzen 5 7500X3D 6-Core 4.0GHz Processor (AM5)

For gamers and content creators seeking the ultimate blend of speed, power, and future-proof technology, the AMD Ryzen 5 7500X3D is the processor you've been waiting for. Whether you're tackling demanding tasks or enjoying the latest games, this processor offers a seamless experience across every application.

Specifications:

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Specifications	
Product Code	100-100001904WOF
General Specifications	
Name	AMD Ryzen 5 7500X3D
Family	Ryzen
Series	Ryzen 7000 Series
Form Factor	Desktops, Boxed Processor
Market Segment	Enthusiast Desktop
AMD PRO Technologies	No
Regional Availability	NA , EMEA
Former Codename	Raphael AM5
Processor Architecture	Zen 4
# of CPU Cores	6
Multithreading (SMT)	Yes
# of Threads	12
Max. Boost Clock	Up to 4.5 GHz
Base Clock	4 GHz
L1 Cache	384 KB
L2 Cache	6 MB
L3 Cache	96 MB
Default TDP	65W
Processor Technology for CPU Cores	TSMC 5nm FinFET
Processor Technology for I/O Die	TSMC 6nm FinFET
CPU Compute Die (CCD) Size	71mm²
I/O Die (IOD) Size	122mm²
Package Die Count	2
AMD EXPO Memory Overclocking Technology	Yes
Precision Boost Overdrive	Yes
Curve Optimizer Voltage Offsets	Yes
AMD Ryzen Master Support	Yes
CPU Socket	AM5
Supporting Chipsets	A620 , X670E , X670 , B650E , B650 , X870E , X870 , B840 , B850
CPU Boost Technology	Precision Boost 2
Instruction Set	x86-64
Supported Extensions	AES , AMD-V , AVX , AVX2 , AVX512 , FMA3 , MMX-plus , SHA , SSE , SSE2 , SSE3 , SSE4.1 , SSE4.2 , SSE4A , SSSE3 , x86-64

Thermal Solution (PIB)	Not Included
Recommended Cooler	Liquid cooler recommended for optimal performance
Max. Operating Temperature (Tjmax)	89degreesC
Launch Date	11/12/2025
***OS Support**	Windows 11 - 64-Bit Edition , Windows 10 - 64-Bit Edition , RHEL x86 64-Bit , Ubuntu x86 64-Bit
	Connectivity
Native USB 3.2 Gen 2 (10Gbps)	4
Native USB 3.2 Gen 1 (5Gbps)	0
Native USB 2.0 (480Mbps)	1
PCI Express Version	PCIe 5.0
Native PCIe Lanes (Total/Usable)	28 , 24
NVMe Support	Boot , RAID0 , RAID1 , RAID10
System Memory Type	DDR5
Memory Channels	2
Max. Memory	128 GB
System Memory Subtype	UDIMM
Max Memory Speed	2x1R
	DDR5-5200
	2x2R
	DDR5-5200
	4x1R
	DDR5-3600
	4x2R
	DDR5-3600
ECC Support	Yes (Requires mobo support)
	Graphics Capabilities
Graphics Model	AMD Radeon Graphics
Graphics Core Count	2
Graphics Frequency	2200 MHz
USB Type-C DisplayPort Alternate Mode	Yes
	Product IDs
Product ID Tray	100-000001904
	Key Features
Supported Technologies	AMD EXPO Technology , AMD Ryzen Technologies

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/100-100001904WOF-AMD-Ryzen-5-7500X3D-6-Core-4-0GHz-up-to-4-5-GHz-Socket-AM5-Processor-p-331774.php

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