ComX Computers
Product Specification Sheet

100-100001277WOF

AMD Zen 5 Ryzen 9 9950X 16-core 4.3GHz up to 5.7GHz 64MB Cache AM5 CPU

Product Overview

AMD Zen 5 Ryzen 9 9950X 16-core 4.3GHz up to 5.7GHz 64MB Cache AM5 CPU, 16 Cores / 32 threads, PCI-e 5.0 and DDR5 support, Granite Ridge AM5 former codename, Zen 5 Architecture, 1280 KB L1 Cache, 16 MB L2 Cache, 64 MB L3 Cache, 170W Default TDP, TSMC 4nm FinFET for CPU Cores, TSMC 6nm FinFET for I/O die, AMD Radeon Graphics intergrated, No Heatsink and fan



Specifications

Overview:

Elevate your computing to new heights with the AMD Ryzen 9000 Series CPUs. These processors represent the pinnacle of desktop performance, engineered for those who demand the best from their systems. With integrated AMD Radeon Graphics, enjoy breathtaking visuals and seamless gameplay without the need for a separate graphics card, making these CPUs ideal for gamers and creators alike.

The AMD Ryzen 9000 Series features AMD EXPO Technology, delivering optimised settings and enhanced gaming performance. This technology ensures that your games run smoothly and look stunning, providing an immersive experience that takes your gaming to the next level.

At the heart of the Ryzen 9000 Series are advanced AMD Ryzen Technologies. Precision Boost optimises performance for every task, dynamically adjusting clock speeds to deliver the power you need when you need it most. Smart Access Memory allows the CPU to fully utilise the GPU's memory, resulting in faster performance and reduced latency, perfect for intensive gaming and creative workloads.

The Ryzen 9000 Series supports the latest DDR5 memory and PCIe 5.0, preparing your system for the future with the bandwidth and speed necessary for next-generation graphics and storage solutions. This future-proofing ensures that your system remains cutting-edge, capable of handling the most demanding applications and games with ease.

Security and efficiency are paramount with the Ryzen 9000 Series. Integrated security features protect your system from modern threats, while advanced thermal solutions keep your CPU cool and efficient, even under heavy loads. This ensures that your system remains reliable and secure, allowing you to focus on what matters most.

- Boost Clock up to 5.6GHz
- 12 Cores / 24 Threads
- Latest AM5 Platform
- PCIe 5.0 and DDR5 Support
- AMD Radeon Graphics
- AMD EXPO Technology

- AMD Ryzen Technologies

Specifications:

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Specifications	
Product Code	100-100001277WOF
General Specifications	
Name	AMD Ryzen 9 9950X
Family	Ryzen
Series	Ryzen 9000 Series
Form Factor	Desktops , Boxed Processor
Market Segment	Enthusiast Desktop
AMD PRO Technologies	No
Consumer Use	Yes
Regional Availability	Global
Former Codename	Granite Ridge AM5
Architecture	Zen 5
# of CPU Cores	16
Multithreading (SMT)	Yes
# of Threads	32
Max. Boost Clock	Up to 5.7 GHz
Base Clock	4.3 GHz
L1 Cache	1280 KB
L2 Cache	16 MB
L3 Cache	64 MB
Default TDP	170W
Processor Technology for CPU Cores	TSMC 4nm FinFET
Processor Technology for I/O Die	TSMC 6nm FinFET
Package Die Count	3
Unlocked for Overclocking	Yes
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
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)	95 degreesC
Launch Date	08/15/2024
***OS Support**	Windows 11 - 64-Bit Edition , Windows 10 - 64-Bit Edition , RHEL x86 64-Bit , Ubuntu x86 64-Bit
Native USB 3.2 Gen 2 (10Gbps) Ports	4
Native USB 2.0 (480Mbps) Ports	1
PCI Express Version	PCIe 5.0
Native PCIe Lanes (Total/Usable)	28 , 24
Additional Usable PCIe Lanes from Motherboard	X870E 8x Gen4
	X870 4x Gen4
	X670E 12x Gen4
	X670 12x Gen4
	B650E 8x Gen4
	B650 8x Gen4
NVMe Support	Boot , RAID0 , RAID1 , RAID5 , RAID10
System Memory Type	DDR5
Memory Channels	2
Max. Memory	192 GB
System Memory Subtype	UDIMM
Max Memory Speed	2x1R DDR5-5600
	2x2R DDR5-5600
	4x1R DDR5-3600
	4x2R DDR5-3600
ECC Support	Yes (Requires mobo support)
Graphics Model	AMD Radeon Graphics
Graphics Core Count	2
Graphics Frequency	2200 MHz

USB Type-C DisplayPort Alternate Mode	Yes
Product ID Boxed	100-100001277WOF
Product ID Tray	100-000001277
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.co.za/100-100001277WOF-AMD-Zen-5-Ryzen-9-9950X-16-core-4-3GHz-up-to-5-7GHz-64MB-Cache-AM5-p-306600.php

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