

100-100000590BOX

AMD Ryzen 9 7900 5nm Socket AM5 12 Core 3.7GHz up to 5.4GHz 64 MB L3 Cache Processor

Product Overview

AMD Ryzen 9 7900 5nm Socket AM5 12 Core 3.7GHz up to 5.4GHz 64 MB L3 Cache Processor, Wraith prism Cooler, 768KB L1 Cache, 12MB L2 Cache, 64MB L3 Cache, 65W Default TDP, AMD Radeon Graphics, TSMC 5nm FinFET Processor technology for CPU cores, TSMC 6nm FinFET Processor technology for I/O die



Specifications

Overview:

Serious Performance for Gamers and Creators

Enjoy serious speed and the ultimate power efficiency for gaming and creating. This processor comes fully unlocked, overclockable, and will remain cool and quiet with an included AMD Wraith Prism cooler with RGB LED lighting.

Specifications:

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Specifications	
Product Code	100-100000590BOX
General Specifications	
Platform	Desktop
Market Segment	Enthusiast Desktop
Product Family	AMD Ryzen Processors
Product Line	AMD Ryzen 9 Processors
AMD PRO Technologies	No
Consumer Use	Yes
Regional Availability	Global, China, NA, EMEA, APJ, LATAM
Former Codename	"Raphael AM5"

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Product Specification Sheet

Architecture	"Zen 4"
# of CPU Cores	12
Multithreading (SMT)	Yes
# of Threads	24
Max. Boost Clock	Up to 5.4GHz
Base Clock	3.7GHz
L1 Cache	768KB
L2 Cache	12MB
L3 Cache	64MB
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	71mm ²
I/O Die (IOD) Size	122mm ²
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	X670E
	X670
	B650E
	B650
CPU Boost Technology	Precision Boost 2
Instruction Set	x86-64
Supported Extensions	AES, AMD-V, AVX, AVX2, AVX512, FMA3, MMX(+), SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2, SSE4A, SSSE3, x86-64
Thermal Solution (PIB)	AMD Wraith Prism
Max. Operating Temperature (Tjmax)	95 degreesC
Launch Date	1/14/2023

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Product Specification Sheet

*OS Support	Windows 11 - 64-Bit Edition
	Windows 10 - 64-Bit Edition
	RHEL x86 64-Bit
	Ubuntu x86 64-Bit
	*Operating System (OS) support will vary by manufacturer.
	Connectivity
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	1
Native SATA Ports	0
PCI Express Version	PCIe 5.0
Native PCIe Lanes (Total/Usable)	28/24
Additional Usable PCIe Lanes from Motherboard	AMD X670E
	12x Gen4
	AMD X670
	12x Gen4
	AMD B650E
	8x Gen4
	AMD B650
	8x Gen4
NVMe Support	Boot, RAID0, RAID1, RAID10
System Memory Type	DDR5
Memory Channels	2
Max. Memory	128GB
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	

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Product Specification Sheet

Integrated Graphics	Yes
Graphics Model	AMD Radeon Graphics
Graphics Core Count	2
Graphics Frequency	2200 MHz
GPU Base	400 MHz
USB Type-C DisplayPort Alternate Mode	Yes
Product IDs	
Product ID Boxed	100-100000590BOX
Product ID Tray	100-000000590
	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.co.za/100-100000590BOX-AMD-Ryzen-9-7900-5nm-Socket-AM5-12-Buy-p-277098.php>

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