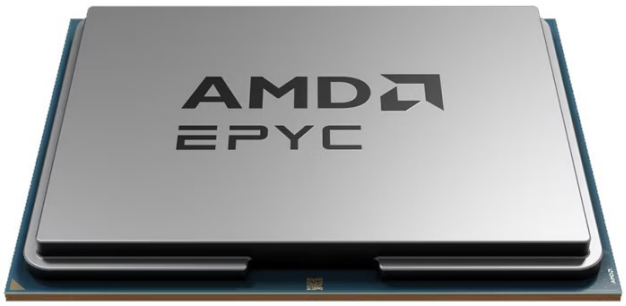
AMD EPYC 9535 processor



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AMD

Introducing 5th Gen AMD EPYC Processors
Purpose built to accelerate data center, cloud, and AI workloads; the AMD EPYC 9005 series of processors are driving new levels of enterprise computing performance.

The Leading CPU for AI
AMD EPYC™ 9005 processors provide end-to-end AI performance.

Maximizing Per-Server Performance
AMD EPYC™ 9005 can match integer performance of legacy hardware with up to 86% fewer racks, dramatically reducing physical footprint, power consumption, and the number of software licenses needed – freeing up space for new or expanded AI workloads.

Leadership AI Inference Performance
Many AI workloads—language models with 13 billion parameters and below, image and fraud analysis, or recommendation systems run efficiently on CPU-only servers that feature AMD EPYC™ 9005 CPUs. Servers running two 5th Gen AMD EPYC 9965 CPUs offer up to 2x inference throughput when compared to previous generation offerings.

Maximizing GPU Acceleration
The AMD EPYC™ 9005 family includes options that are optimized to be host-CPUs for GPU-enabled systems to help increase performance on select AI workloads and improve the ROI of each GPU server. For example, a high frequency AMD EPYC 9575F processor powered server with 8x GPUs delivers up to 20% greater system performance than a server with Intel Xeon 8592+ processors as the host CPU with the same 8x GPUs running Llama3.1-70B.

Enterprise Performance, Optimized
AMD EPYC 9005 processors deliver exceptional performance while enabling leadership energy efficiency and cost-of-ownership (TCO) value in support of key business imperatives.

Industry Leading Integer Performance
AMD EPYC 9005 CPU-powered servers leverage the new “Zen 5” cores to offer compelling mainstream performance metrics, including 2.7x integer performance when compared to leading competitive offerings.

Built for the Cloud
AMD EPYC™ 9005 processors provide density and performance for cloud workloads. With 192 cores, the top-of-stack AMD EPYC 9965 processor will support 33% more virtual CPUs (vCPUs) than the leading available Intel® Xeon 6E “Sierra Forest” 144 core processor (1 core per vCPU).

Leadership Efficiency and TCO
Data centers are demanding more energy than ever. AMD EPYC™ 9005 processors continue to provide the energy efficiency and TCO benefits found in previous AMD EPYC generations.

Leadership Performance, Density, and Efficiency
AMD EPYC 9005 Series processors include up to 192 “Zen 5” or “Zen 5c” cores with exceptional memory bandwidth and capacity. The innovative AMD chiplet architecture enables high performance, energy-efficient solutions optimized for your different computing needs.

Zusammenfassung

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AMD EPYC 9535, AMD EPYC, Socket SP5, Tray, AMD, 2.4 GHz, 4.3 GHz

AMD EPYC 9535. Processor family: AMD EPYC, Processor socket: Socket SP5, Package type: Tray. Memory channels: Dodeca-channel, Memory types supported by processor: DDR5-SDRAM, Memory bandwidth (max): 576 GB/s. Market segment: Server

Merkmale

Features

Graphics

On-board graphics card	No

Market segment	Server
Maximum number of PCI Express lanes	128
PCI Express slots version	5.0

Memory

Memory types supported by processor	DDR5-SDRAM
Memory channels	Dodeca-channel
Memory bandwidth (max)	576 GB/s

Discrete graphics card	No
On-board graphics card model	Not available
Discrete graphics card model	Not available

Processor

Processor manufacturer	AMD
Processor model	9535
Processor base frequency	2.4 GHz
Processor family	AMD EPYC
Processor cores	64
Processor socket	Socket SP5
Processor threads	128
Processor boost frequency	4.3 GHz
Processor cache	256 MB
Processor cache type	L3
Thermal Design Power (TDP)	300 W
Configurable TDP-up	300 W
Package type	Tray
Cooler included	No
Configurable TDP-down	240 W