Products

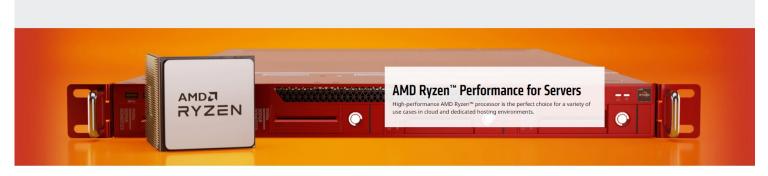
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AMD Ryzen™ Processors for Server: Solutions for Dedicated Hosting

Watch AMD Chair and CEO Dr. Lisa Su unveil 4th Gen AMD EPYC™ processors



HOSTING WORKLOADS WHY SERVERS MOTHERBOARDS SPECIFICATIONS ECOSYSTEM

A Perfect Match for Dedicated Hosting

Whereas the most demanding data centers, supercomputers and hyperscalers rely on AMD EPYC[®] server processors, entry-level server workloads can be addressed with a smaller, cost-efficient infrastructure. That's why AMD has worked with its technology partners to offer AMD Ryzen[®] processors in a server deployment scenario.

AMD Ryzen™ processors for servers offers:

- High Clock Speeds (up to 4.9Ghz Max Boost¹)
- Up to 16 "Zen3" cores
- Power Efficiency at Load and Idle
- Built-in security features for Data Protection



5 REASON WHY



Ideal workloads for Dedicated Hosting Environments



E-commerce

AMD Ryzen™ helps you provide robust e-Commerce platforms and Web hosting Solutions for your SMB customers to be successful with their digital transformation.



Code Development

Software engineers often face long compile times. Software compilation is a multithreaded process and the outstanding core density of AMD Ryzen™ processors help reduce compile times.



Cloud Gaming

Only AMD can deliver the ultimate gaming platform. With AMD Ryzen™, and its broad server ecosystem, you can propose to your customers the world's highest-rated gaming processor.²



Content Creation

Whether designers edit 4K footage or craft complex designs, you can help them save time with AMD RyzenTM, letting you get back to what you do best - creating.



Low-Cost VPS

Give your customers superuser-level access to instantaneous Virtual Private Servers. With up to 16 physical cores per socket you can host 16 customers on a single processor.

Reasons to Believe



Leadership Performance

- Up to 16 high-performance cores for powerful parallel processing and market differentiation
- High frequency cores for low-threaded applications
- High-speed I/O for insanely fast storage needs



Server-grade Platforms

- ECC-enabled memory and remote management
- Standard and density-optimized rackmount
- AES-128 Memory encryption to help protect data in-



Low TCO

- Low-cost infrastructure for outstanding performance-per-dollar
- Innovative chiplet processor design that maximizes efficiency
- CPU TDPs as low as 65W to help reduce power usage, support sustainability efforts, and optimize rack utilization

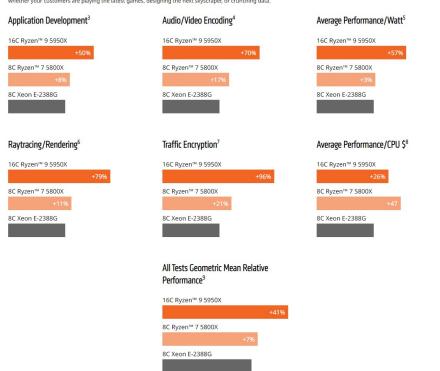


SS We chose AMD Ryzen™ for three reasons: they are incredibly energy efficient for the performance they provide, they have built-in support for ECC so there are no features artificially hidden behind special chipsets, and perhaps most importantly,



Small Footprint, Maximum Performance

Based on the same advanced architecture of AMD EPYC™ server processors, AMD Ryzen™ processors offer endless possibilities. AMD Ryzen™ excel in a variety of workloads whether your customers are playing the latest games, designing the next skyscraper, or crunching data.





Our ODM Partners offer systems and boards, featuring remote management with BMC and iKVM and ECC-enabled memory subsystem

AMD Ryzen™ Powered Servers











ASRock® 4U18N-B550

- 4U chassis with 18 nodes support 36 x 2.5" NVMe SSD, 1600W Redundant (3+1) PSU
- 4 DDR4 ECC/ non-ECC UDIMM, up to 32GB each
- Supports 2 x 2.5" NVMe SSD per node
- Supports 2 M.2 per node
- 2x RI45 (1GbE)
- Integrated IPMI 2.0 and KVM with Dedicated LAN

SPECIFICATIONS

ASRock® Rack 1U1G-X570/2L2T

- 1U Rackmount with 1+1 Redundant 800W CRPS
- 4 DDR4 ECC/ non-ECC UDIMM, up to 32GB each
- 2 Hot-swap 2.5" drive bays
- 2 M.2 (PCIe4.0 x4)
- 1 FH dual-slot PCIe4.0 x16
- 2 RJ45 (10GbE)
- Remote management (IPMI)

SPECIFICATIONS

ASRock® Rack 1U2LW-X570/2L2T

- 1U Rackmount with 315W PSU
- 4 DDR4 ECC/ non-ECC UDIMM, up to 32GB each
- 2 fixed 3.5" drive bays
- 2 M.2 (PCIe4.0 x4)
- 1 FHHL PCIe4.0 x16 On-board dual 10GbE RJ45
- Remote management (IPMI)

SPECIFICATIONS

ASRock® Rack 1U2-X570/2T

- Front I/O 1U Rackmount with 265W PSU
- 4 DDR4 ECC/ non-ECC SO-DIMM, up to 32GB each
- Supports 2 fixed 3.5"drives and 2 fixed 2.5" 7mm drives
- On-board dual 10GbE RJ45
- Remote management (IPMI)

SPECIFICATIONS

■ Rem SPE

ASRc - 1UF >

4 DI

bays

■ 2 RI-

AMD Ryzen™ Powered Server Motherboards



GIGABYTE MC12-LEO

- Micro-ATX (9.6"x 9.6")
- Dual Channel ECC/ Non-ECC Unbuffered DDR4, 4 DIMMs
- 2 x 1Gb/s LAN ports
- 1 x Dedicated management port
- 6 x SATA 6Gb/s ports
- Ultra-Fast M.2 with PCIe Gen3 x1 interface
- 2 x PCIe Gen4 expansion slots

SPECIFICATIONS



ASRock® Rack B550D4ID-2L2T

- Deep mini-ITX (6.7" x 8.2")
- 4 DIMM slots (2DPC), supports DDR4 ECC/non-ECC UDIMM
- 1 PCIe4.0 x16
- 1 OCuLink (4 SATA 6Gb/s)Supports 1 M.2 (PCIe4.0 x4 or SATA 6Gb/s)
- 4 SATA 6Gb/s
- 2 RI45 (10GbE)
- Remote management (IPMI)

SPECIFICATIONS



ASRock® Rack B550D4U-2T

- Micro-ATX (9.6" x 9.6")
- 4 DIMM slots (2DPC), supports DDR4 ECC/non-ECC UDIMM
- 1 PCIe4.0 x16, 1 PCIe4.0 x4
- 1 M.2 (PCIe3.0 x4 or SATA 6Gb/s)
- 6 SATA 6Gb/s
- 2 RJ45 (10GbE)
- Remote management (IPMI)

SPECIFICATIONS



ASRock® Rack X570D4I-2T

- Mini-ITX (6.7" x 6.7")
- 4 DIMM slots (2DPC), supports ECC/non-ECC SODIMM 1 PCIe4.0 x16 UDI
- 2 OCuLink (PCIe4.0 x4 or 4 SATA 6Gb/s) Supports 1 M.2 (PCIe4.0 x4 or SATA 6Gb/s) Sup
- 6 SA 9 SATA 6Gb/s 2 RJ45 (10GbE)
- Remote Management (IPMI) - HDN • Rem

SPECIFICATIONS

SPE

ASRc

ATX

Featured Hardware Vendors Offering AMD Ryzen™ Platforms









MODEL	SERVER SPECIFIC OPN	# OF CPU CORES	# OF THREADS	MAX. BOOST CLOCK*	BASE CLOCK	DEFAULT TDP
AMD Ryzen™ 9 5950X	100-000000059A	16	32	Up to 4.9GHz	3.4GHz	105W
AMD Ryzen™ 9 5900X	100-000000061A	12	24	Up to 4.8GHz	3.7GHz	105W
AMD Ryzen™ 7 5800X	100-000000063A	8	16	Up to 4.7GHz	3.8GHz	105W
AMD Ryzen™ 7 5700X	100-000000926A	8	16	Up to 4.6GHz	3.4GHz	65W
AMD Ryzen™ 5 5600X	100-000000065A	6	12	Up to 4.6GHz	3.7GHz	65W
AMD Ryzen™ 5 5600	100-000000927A	6	12	Up to 4.4GHz	3.5GHz	65W
AMD Ryzen™ 5 5500	100-000000457A	6	12	Up to 4.2GHz	3.6GHz	65W
AMD Ryzen™ 9 3950X	100-000000051A	16	32	Up to 4.7GHz	3.5GHz	105W
AMD Ryzen™ 9 3900X	100-000000023A	12	24	Up to 4.6GHz	3.8GHz	105W
AMD Ryzen™ 7 3800X	100-000000025A	8	16	Up to 4.5GHz	3.9GHz	105W
AMD Ryzen™ 7 3700X	100-000000071A	8	16	Up to 4.4GHz	3.6GHz	65W
AMD Ryzen™ 5 3600X	100-000000022A	6	12	Up to 4.4GHz	3.8GHz	95W
AMD Ryzen™ 5 3600	100-000000029A	6	12	Up to 4.2GHz	3.6GHz	65W
ax boost for AMD Ryzen™ processors is t	he maximum frequency achievable by a single core of	on the processor running a bursty single-th	readed workload. Max boost will vary	based on several factors, including, but not limite	ed to: thermal paste; system coolin	g: motherboard design and

We Power Service Providers Across the Globe

FIBERHUB HETZNER IONOS **MEVSPACE** Quantum Core **V** OVHcloud









Featured ISV Supporting AMD Ryzen™ Platforms

