

RS500A-E12-RS12U

AMD Single-socket, 1U Rack Server



*2DPC support depends on AMD schedule

ASUS RS500A-E12-RS12U was designed for general purpose application. With the front 12 hot-swap bays and optional internal 4 bays, RS500A-E12-RS12U is the economic design for rack placement.

FEATURE

- 1 x AMD EPYC 9004 series processor support
- 24 x DDR5 4800 Mhz DIMM support *
- 2 x M.2 socket support
- 3 x PCIe + 1 x OCP expansion in 1U rack sever.
- Internal 4-bay cage (optional)

AMD EPYC™ 9004 series processors support

RS500A-E12 series is built on the AMD platform to deliver incredible performance, and offer more CPU cores powered by AMD EPYC 9004 series processors.

Industry-leading memory capability

With 24 x DIMM slots*, RS500A-E12 Series supports total 6,144GB memory size. The CPU's memory controller supports DDR5 4800Mhz memory with 12 channels. We deliver the industry-leading technology of server memory for our customers' business.

Amazing compact design of internal 4-bay cage option for more storage possibility

ASUS RS500A-E12-RS12U features an internal 4-bay cage option. We redefine the possibility of 1U rack from traditional image of Max. 12 storage bays to the whole new image of 16 drives support.

Comprehensive IT infrastructure management solution

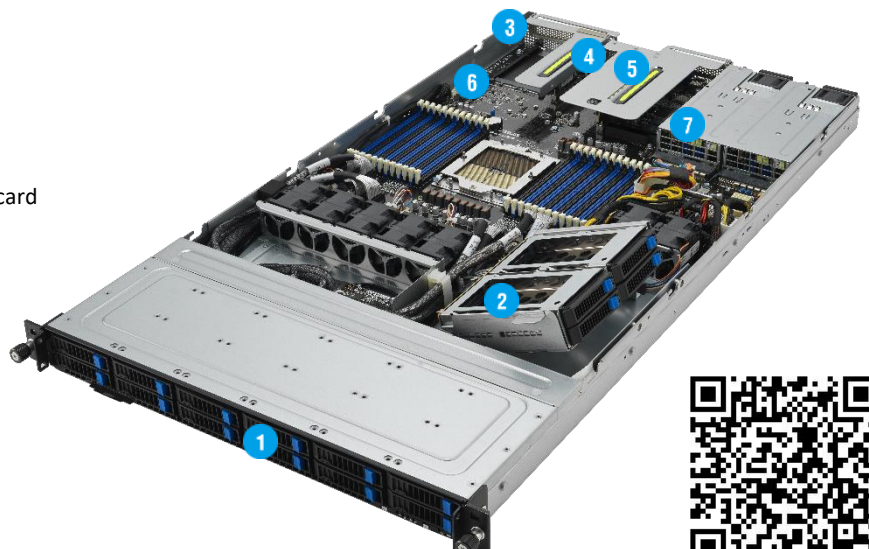
ASUS server features an embedded ASMB11-iKVM (BMC, AST2600) and is bundled with ASUS Control Center to provide comprehensive out-of-band and in-band management capability.

Target market

- General-purpose Rack Server
- Enterprise Application

1. 12 x 2.5" Hot-swap Storage Bays
2. Internal 4-bay cage (optional)*
3. 1 x PCIe Gen5 x16 slot for full-height, half-length card
4. 1 x PCIe Gen5 x16 slot for low-profile card
5. 1 x PCIe Gen5 x16 slot for low-profile card
6. 1 x OCP 3.0 Mezzanine socket
7. 1+1 80 PLUS Platinum/ Titanium CRPS

*Please select it when purchasing order and we will have assembling and standard testing before ship



RS500A-E11-RS12U

SPECIFICATION

Processor		1 x Socket SP5 (LGA-6096) Supports AMD EPYC™ 9004 series processors (up to 400W)
Memory	Total Slots	24 12-channel, 2 DIMM per channel *2DPC support depends on AMD schedule
	Capacity	Up to 6,144GB
	Memory Type	DDR5 4800 RDIMM/LRDIMM/LRDIMM 3DS
	Memory Size	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
Expansion Slots	Total Slots	3+1
	Slot Type	1 x PCIe x16 slot (Gen5 x16 link, FH, HL) 1 x PCIe x16 slot (Gen5 x16 link, LP, HL) 1 x PCIe x16 slot (Gen5 x8 link, LP, HL) 1 x OCP3.0 socket (Gen5 x16 link)
Storage Bays		Front:12 x 2.5" Hot-swap Storage Bays (12 x SATA/SAS/ U.2 or U.3 NVMe Devices) Optional 4 x 2.5" Internal Storage Bays (4 x SATA/U.2 or U.3 NVMe Devices)
Networking	LAN	2 x M.2 socket (Gen4 x4 link or SATA mode, up to 22110 module)
		1 x Dual Port Intel I350-AM2 Gigabit LAN controller 1 x Dedicated Management port (BMC AST2600)
Security		Optional TPM module Optional PFR module
Front I/O Ports		-
Rear I/O Ports		2 x USB 3.2 Gen1 ports 2 x Gigabit LAN ports (RJ45) 1 x Management port (RJ45) 1 x VGA port 1 x COM port
Switch/LED		Front: 1 x Power Button/LED 1 x Location Button/LED 1 x Message LED 2 x LAN LED Rear: 1 x Port80 LED (Q-Code) 1 x Power Switch w/ LED 1 x Location Switch w/ LED 1 x Message LED
OS Support		*Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html
Management Solution	Software	ASUS Control Center (in-band)
	Out of Band Remote Management	ASMB11-iKVM (BMC AST2600)
Dimension		842.5mm x 449mm x 43.85mm (1U) 33.15" x 17.68" x 1.73"
Net Weight Kg (CPU, DRAM & HDD not included)		14.16 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		19.16 kg
Power Supply (following different configuration by region)		1+1 Redundant 1200W /1600W 80 PLUS Platinum Power Supply 1+1 Redundant 1600W 80 PLUS Titanium Power Supply
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)



RS500A-E12 Series

SPECIFICATION

Series	RS500A-E12 Series Support Matrix	
Model	RS500A-E12-RS12U	RS500A-E12-RS4U
Processor	1 x Genoa CPU	
GPU	Up to 2 single-slot GPU cards	
Memory	24 x DIMM *2DPC support depends on AMD schedule	
M.2	2 x PCIe x4 or 2 x SATA	
Expansion	1 x PCIe x16 slot (Gen5 x16 link, FH, HL) 1 x PCIe x16 slot (Gen5 x16 link, LP, HL) 1 x PCIe x16 slot (Gen5 x8 link, LP, HL) 1 x OCP3.0 socket (Gen5 x16 link)	
Storage	Front bays: 12 x 2.5" Hot-Swap drive bays 12 x SATA/SAS/NVME* Optional 4 x 2.5" Internal drive bays 4 x SATA/NVME** *SAS support only from optional SAS HBA/RAID card **Please select it when purchasing order and we will have assembling and standard testing before ship	Front bays: 4 x 3.5" Hot-Swap drive bays Support up to 4 x NVMe/SATA/SAS* *SAS support only from optional SAS HBA/RAID card
NIC	2 x 1GbE RJ45 onboard LAN ports (Intel i350-AM2 controller) 2 x 10Gb OCP Card (Optional) 1 x Management LAN	

* The total number of NVMe drives installed will affect the total number of GPUs that can be installed.