

# RS500A-E12-RS12U

## AMD Single-socket, 1U Rack Server



1U



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24

### 4th Generation AMD EPYC Processors with AMD 3D V-Cache technology

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

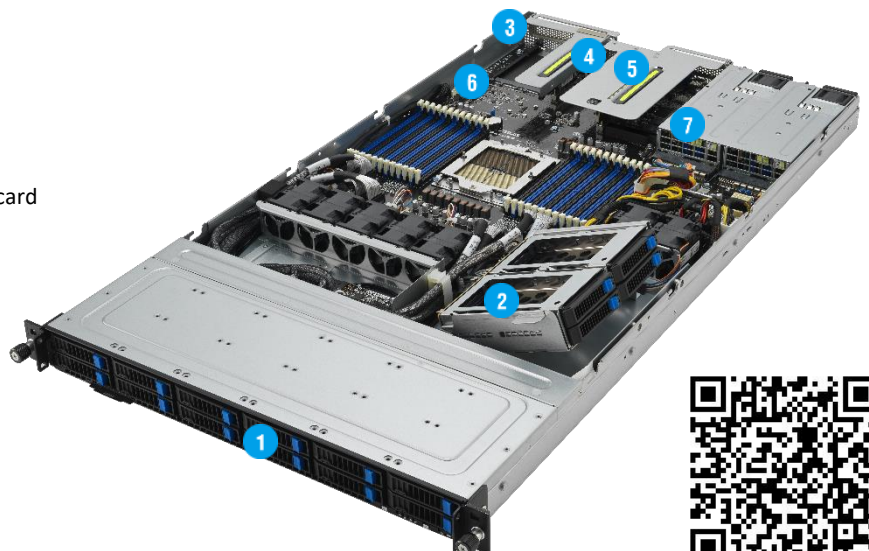
ASUS server features an embedded ASMB11-iKVM (BMC, AST2600) and is bundled with ASUS Control Center to provide comprehensive out-of-band and in-band management capability.

### 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

<b>Processor</b>		1 x Socket SP5 (LGA-6096) Supports 4th Generation AMD EPYC Processors with AMD 3D V-Cache technology Supports AMD EPYC™ 9004 series processors (up to 400W)
<b>Memory</b>	<b>Total Slots</b>	<b>24</b> 12-channel, 2 DIMM per channel
	<b>Capacity</b>	Up to 6,144GB
	<b>Memory Type</b>	DDR5 4800/4400/4000/3600 RDIMM/ 3DS RDIMM 1DPC up to 4800 2DPC up to 4000(1R+1R) 2DPC up to 3600(1R+2R)/ (2R+2R)
	<b>Memory Size</b>	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total Slots</b>	3+1
	<b>Slot Type</b>	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)
<b>Storage Bays</b>		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)  2 x M.2 socket (Gen4 x4 link or SATA mode, up to 22110 module)
<b>Networking</b>	<b>LAN</b>	1 x Dual Port Intel I350-AM2 Gigabit LAN controller 1 x Dedicated Management port (BMC AST2600)
<b>Security</b>		Optional TPM module Optional PFR module
<b>Front I/O Ports</b>		-
<b>Rear I/O Ports</b>		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
<b>Switch/LED</b>		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
<b>OS Support</b>		*Please find the latest OS support from <a href="https://www.asus.com/event/Server/OS_support_list/OS.html">https://www.asus.com/event/Server/OS_support_list/OS.html</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (in-band)
	<b>Out of Band Remote Management</b>	ASMB11-iKVM (BMC AST2600)
<b>Dimension</b>		842.5mm x 449mm x 43.85mm (1U) 33.15" x 17.68" x 1.73"
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		14.16 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		19.16 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 1200W /1600W 80 PLUS Platinum Power Supp 1+1 Redundant 1600W 80 PLUS Titanium Power Supply
<b>Environment</b>		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 DDR5 4800/4400/4000/3600 RDIMM/ 3DS RDIMM 1DPC up to 4800 2DPC up to 4000(1R+1R) 2DPC up to 3600(1R+2R)/(2R+2R)	
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 **optional, cannot be purchased separately	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.