

# RS500A-E12-RS4U

## AMD Single-socket, 1U Rack Server



\*2DPC support depends on AMD schedule

ASUS RS500A-E12-RS4U was designed for general purpose application. With the front 4 hot-swap bays supporting 3.5" and 2.5" drives, RS500A-E12-RS4U 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.

### 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.

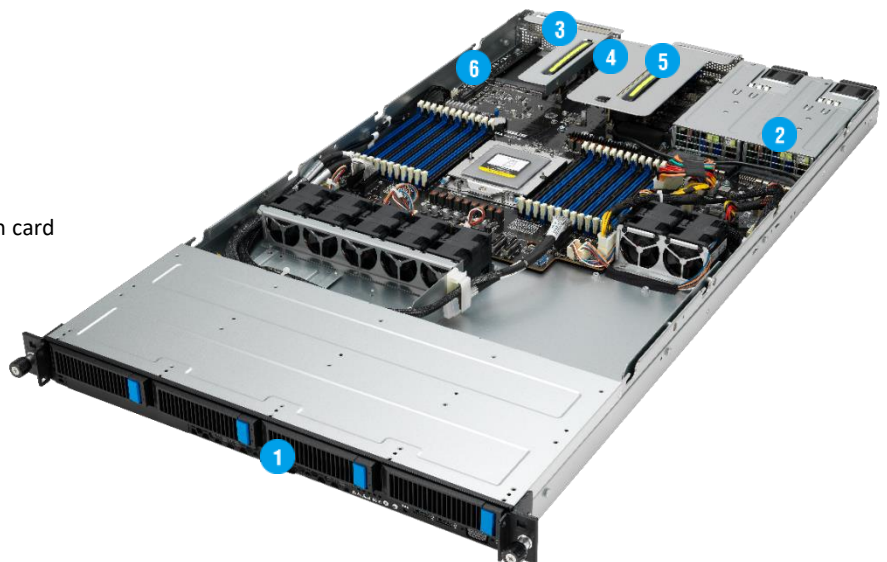
### Target market

- General-purpose Rack Server
- Enterprise Application

### Comprehensive IT infrastructure management solution

ASUS RS500A-E12 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.

1. 4 x 3.5" / 2.5" Hot-swap Storage Bays
2. 1+1 80 PLUS Platinum/ Titanium CRPS CRPS
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



# RS500A-E11-RS4U

# SPECIFICATION

|   |                                      |  |
|---|--------------------------------------|--|
| <b>Processor</b>  |                                      | 1 x Socket SP5 (LGA-6096)<br>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 *2DPC support depends on AMD schedule   |
|   | <b>Capacity</b>                      | Up to 6,144GB  |
|   | <b>Memory Type</b>                   | DDR5 4800 RDIMM/LRDIMM/LRDIMM 3DS  |
|   | <b>Memory Size</b>                   | 256GB, 128GB, 64GB, 32GB, 16GB<br>*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)<br>1 x PCIe x16 slot (Gen5 x16 link, LP, HL)<br>1 x PCIe x16 slot (Gen5 x8 link, LP, HL)<br>1 x OCP3.0 socket (Gen5 x16 link)  |
| <b>Storage Bays</b>   |                                      | Front: 4 x 3.5"/2.5" Hot-swap Storage Bays<br>(4 x SATA/SAS/U.2 or U.3 NVMe Devices)<br><br>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<br>1 x Dedicated management port (BMC, AST2600)  |
| <b>Security</b>   |                                      | Optional TPM module<br>Optional PFR module   |
| <b>Front I/O Ports</b>  |                                      | -  |
| <b>Rear I/O Ports</b>   |                                      | 2 x USB 3.2 Gen1 ports<br>2 x Gigabit LAN ports (RJ45)<br>1 x Management port (RJ45)<br>1 x VGA port<br>1 x COM port   |
| <b>Switch/LED</b>   |                                      | Front:<br>1 x Power Button/LED<br>1 x Location Button/LED<br>1 x Message LED<br>1 x HDD LED<br>4 x LAN LED (1-2 for on-board LAN, 3-4 for OCP LAN)<br><br>Rear:<br>1 x Port80 LED (Q-Code)<br>1 x Power Switch w/ LED<br>1 x Location Switch w/ LED<br>1 x Message LED |
| <b>OS Support</b>   |                                      | *Please find the latest OS support from<br><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)<br>33.15" x 17.68" x 1.73"  |
| <b>Net Weight Kg</b>  |                                      | 13.15 kg <b>(CPU, DRAM &amp; HDD not included)</b>   |
| <b>Gross Weight Kg</b>  |                                      | 18.15 kg <b>(CPU, DRAM &amp; HDD not included, Packing include)</b>  |
| <b>Power Supply (following different configuration by region)</b> |                                      | 1+1 Redundant 800W/1200W 80 PLUS Platinum Power Supply<br>1+1 Redundant 1600W 80 PLUS Titanium Power Supply  |
| <b>Environment</b>  |                                      | Operation temperature: 10°C ~ 35°C<br>Non operation temperature: -40°C ~ 70°C<br>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)<br>1 x PCIe x16 slot (Gen5 x16 link, LP, HL)<br>1 x PCIe x16 slot (Gen5 x8 link, LP, HL)<br>1 x OCP3.0 socket (Gen5 x16 link)  |  |
| Storage   | Front bays:<br>12 x 2.5" Hot-Swap drive bays<br>12 x SATA/SAS/NVME*<br>Optional 4 x 2.5" Internal drive bays 4 x SATA/NVME**<br><br>*SAS support only from optional SAS HBA/RAID card<br>**Please select it when purchasing order and we will have assembling and standard testing before ship | Front bays:<br>4 x 3.5" Hot-Swap drive bays<br>Support up to 4 x NVMe/SATA/SAS*<br><br>*SAS support only from optional SAS HBA/RAID card |
| NIC       | 2 x 1GbE RJ45 onboard LAN ports (Intel i350-AM2 controller)<br>2 x 10Gb OCP Card (Optional)<br>1 x Management LAN  |  |

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