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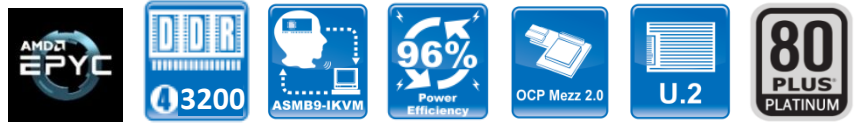

RS500A-E10-RS4
RS500A-E10-PS4

RS500A-E10-RS12U

Highlights

- 1 x AMD EPYC™ 7002 Series Processor with DDR4 Memory up to 3200Mhz

- 4 x 3.5"/2.5" Hot-swap Storage Bays support 4 x SATA/SAS or 12 x SATA/SAS/NVMe (by SKU)

- Support 1 x M.2 Conn. (up to 22110 module)

- Support 2 x PCIe slots + 1 x OCP Mezzanine slot.

- Embedded IT Management
  - BMC (ASMB9-iKVM)
  - ASUS Control Center (ACC)

- Visible Q-code/Port 80 LED

- Thermal Radar and Auto Fan Control Features

ASUS RS500A-E10-PS4
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Rack Optimized Design with Great Efficiency and Scale-out Computing

RS500A-E10 Series is the ideal 1U rack server with the balanced design of performance and power efficiency. Featuring the single processor in a 1U chassis, RS500A-E10 delivers the right-sized rack server dimensions for price sensitive applications and meets the demanding computing requirements.

AMD EPYC™ 7002 Series Processor

The RS500A-E10 Series is built on the latest AMD EPYC™ 7002 Series Processor, and designed for the demand of scale-out computing, and wide range of existing and emerging workloads.

Industry-leading Memory Technology

With 16 x DIMM slots, RS500A-E10 Series supports total 2,048GB memory size. The CPU's memory controller supports 16 x DDR4 memory slots with 8 channels, up to 3200Mhz of RDIMMs or LR-DIMMs/3DS. We deliver the industry-leading technology of server memory for our customers' business.

Thermal Radar and Auto Fan Control

Besides thermal sensors from CPU, there is also an ambience sensor at front panel. The Thermal Radar design provides internal and external temperature monitoring and enables dynamic fan curve adjustment, lowering fan power consumption up to 20% and reducing TCO, which brings a huge benefit for mega-scale data center.

Specification

Model Name	RS500A-E10-PS4	RS500A-E10-RS4	RS500A-E10-RS12U
Processor Support	1 x SP3 LGA4094		
	AMD EPYC™ 7002 Series Processor (up to 225W)		
Core Logic	NA		
Memory — Total Slots	16 (8-DIMMs and 8 Channels per CPU)		
Memory — Capacity	Maximum 2,048GB		
Memory — Memory Type	DDR4 3200/2933/2666 RDIMM/LR-DIMM/LR-DIMM 3DS		
Memory — Memory Size	32GB, 16GB, 8GB (RDIMM), 64GB, 32GB (LRDIMM), 128GB, 64GB (LRDIMM 3DS)		
Expansion Slots — Total PCI/PCI-X/PCI-E/PIKE Slots	2+1		
Expansion Slots — Slot Type	1 x PCI-E x16 slot (Gen4 x16 link) FH, HL (LP only when RS12U) 1 x PCI-E x8 slot (Gen4 x8 link) FH, HL (Occupied when RS12U) 1 x OCP 2.0 Mezzanine slot (Gen4 x16 link)		
Disk Controller — SATA Controller	Integrated in CPU - 12 x SATA 6Gb/s ports (4 SATA connectors + 2 mini-SAS HD Connector) - 1 x M.2 connector (up to 22110, SATA 6Gbps or PCI-E Gen3 x4 link)		
Disk Controller — SAS Controller	Optional Kit: - ASUS PIKE II 3008-8i HBA Card - ASUS PIKE II 3108-8i HW RAID Card		
Disk Controller — NVMe Controller	NA		Integrated in CPU
Storage Bays (I = internal, S = hot-swappable)	4 x 3.5"/2.5"Hot-swap Storage Bays (SATA/SAS Supported)		12 x 2.5" Hot-swap Bays (SATA/SAS/NVMe Supported)
Networking — LAN	1 x Dual Port Intel® I350-AM2 Gigabit LAN Controller 1 x Management Port		
Graphic — VGA	Aspeed AST2500 64MB		
Auxiliary Storage Device Bay (Floppy / Optical Drive)	1 x Slim-type Optical Device Bay (DVD-RW)		
Front I/O Ports	2 x USB 3.0 ports 1 x VGA port		
Rear I/O Ports	2 x USB 3.0 Ports 1 x VGA Port 2 x RJ-45 1GbE LAN Ports 1 x RJ-45 Management Port		
Switch/LED	Rear: - 1 x Power Switch/LED - 1 x Q-Code/Port 80 LED Front: - 1 x Power Switch/LED - 1 x Location Switch/LED - 1 x Reset Switch - 1 x Message LED - 4 x LAN LED (LED1~2 for on-board LAN, 3~4 for OCP LAN)		
OS Support	Please find the latest OS support from http://www.asus.com		
Management Solution — Software	ASUS Control Center		
Management Solution — Out of Band Remote Management	On-Board ASMB9-iKVM for KVM-over-IP		
Regulatory Compliance	CE, FCC (Class A)		
Dimensions	615 x 444 x 44mm (1U)		
Net Weight Kg (CPU, DRAM & HDD not included)	10 kg.		11 Kg.
Gross Weight Kg (Barebone Type, Packing include)	16 kg.		17 Kg.
Power Supply (following different configuration by region)	Single 650W Platinum PSU Rating: 100~127/200~240Vac, 9A/5A, 50~60Hz, Class I	1+1 Redundant 650W 80 PLUS Platinum Power Supply Rating: 100~127/200~240 Vac, 10A/5A, 50~60Hz, Class I	
Environment	Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)		

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