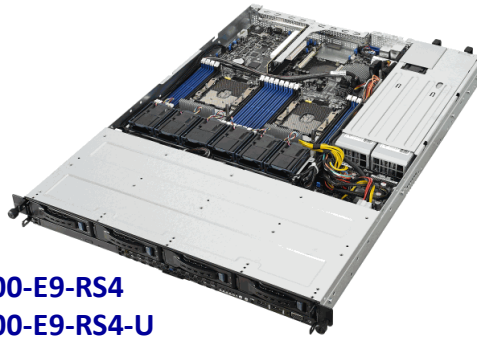


# RS500-E9 Series

## Rack Optimized Design with Great Efficiency and Scale-out Computing



RS500-E9-PS4



RS500-E9-RS4  
RS500-E9-RS4-U



1U



2



16

RS500-E9 Series is the ideal 1U rack server with the balanced design of performance and power efficiency. Featuring dual processors in a 1U chassis, RS500-E9 delivers the right-sized server dimensions for scale-out IT infrastructure to meet demanding computing requirements.

### FEATURE

- 4 x 3.5" Hot-swap Storage Bays support 4 x SATA/SAS or 4 x SATA/SAS/NVMe (by SKU)
- Support 2 x M.2 Conn. (up to 22110 SSD module)
- 2 x PCIe + 1 x OCP Expansion

### First Gen and Second Gen Intel® Xeon® Scalable processor Family

The RS500-E9 Series supports latest Intel® Xeon® Processor Scalable Family, and designed for the demand of scale-out computing, and wide range of existing and emerging workloads.

### Industry-leading Memory Technology

With total 16 x DIMM slots, RS500-E9 Series supports total 4,096GB memory size. Each CPU (memory controller) supports 8 x DDR4 memory slots with 6 channels, up to 2933Mhz of RDIMMs or LR-DIMMs/3DS. We deliver the industry-leading technology of server memory for our customers' business

### Flexible expandability with three expansion slots

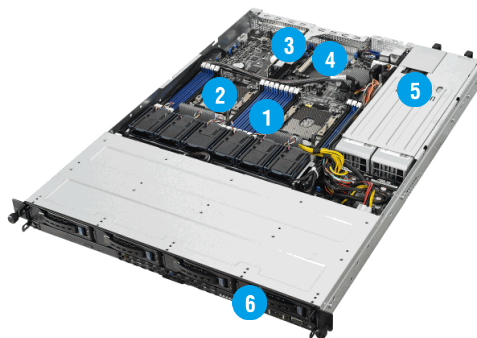
RS500-E9 provides flexible expandability with two PCIe slots, as well as one connector for OCP 2.0 Mezzanine card support for applications that require high-bandwidth to transfer large data such as data center, HPC, web-hosting and enterprise uses..

### Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC\*)

### Target market

- Data center
- Enterprise Application



1. 16 x DIMM, DDR4-2933/2666 RDIMM, LRDIMM, LRDIMM 3DS
2. 1<sup>st</sup> and 2<sup>nd</sup> Gen Intel® Xeon® Scalable processor
3. 1 x PCI-E x16 (Gen3 x16 link) , 1 x PCI-E x8 (Gen3 x8 link); 1 x PCI-E x24 (x16 link + x8 link)
4. 1 x OCP 2.0 Mezzanine (Gen3 x8 link)
5. Single 650W 80 PLUS Platinum PSU (PS4); 1+1 450W 80 Gold or 770W 80 PLUS Platinum PSU (RS4, RS4-U)
6. 4 x 3.5" or 2.5" Hot-swap Storage Bays

# RS500-E9

# SPECIFICATION

<b>Processor Support</b>		2 x Socket P0 (LGA 3647)  1 <sup>ST</sup> Gen Intel® Xeon® Processor Scalable Family (up to 205W) 2 <sup>nd</sup> Gen Intel® Xeon® Processor Scalable Family (up to 205W)
<b>Core Logic</b>		Intel® C621 PCH
<b>Memory</b>	<b>Total Slots</b>	16 (6-channel per CPU, 8 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 4096GB
	<b>Memory Type</b>	DDR4 2933 (1 DIMM per Channel) DDR4 2666 RDIMM/LRDIMM/LRDIMM 3DS (2DIMM per Channel) *Refer to Asus server AVL for the latest update *if 2DPC, 2933MHz speed will drop to 2666MHz
	<b>Memory Size</b>	32GB, 16GB (RDIMM), 128GB, 64GB, 32GB (LRDIMM), 256GB, 128GB, 64GB (LRDIMM 3DS) *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	2+1
	<b>Slot Type</b>	1x PCIe 3.0 x16 Slot (x16 link) FH, HL 1x PCIe 3.0 x8 Slot (x8 link) FL,HL 1 x OCP 2.0 Mezzanine ( x16 link)
<b>Disk Controller</b>	<b>SATA Controller</b>	SATA Controller : Intel® C621 PCH - 12 x SATA 6Gb/s ports (4 SATA connectors + 2 mini-SAS HD Connector) - 2 x M.2 connector (SATA 6Gb/s & PCI-E Gen3 x4 link)
	<b>SAS Controller</b>	Optional kits: ASUS PIKE II 3108 II 8i-240PD 2G SAS HW RAID card 12G SAS Support
	<b>NVMe Controller</b>	Optional kits (for RS500-E9-RS4-U): Intel® VROC H/W Key - 4 x NVMe ports (RAID 0,1,5)
<b>Storage Bays</b>	<b>I = internal</b>	4 x 3.5" or 2.5" Hot-swap Storage Bays
	<b>S = hot-swappable</b>	<b>RS4/ PS4:</b> SATA/SAS Supported <b>RS4-U:</b> SATA/SAS/NVMe Supported
<b>Networking</b>	<b>LAN</b>	1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2500 64MB
<b>Front I/O Ports</b>		2 x USB 3.0 ports 1 x VGA port
<b>Rear I/O Ports</b>		2 x USB 3.0 Ports 1 x VGA Port 2 x RJ-45 1GbE LAN Ports 1 x RJ-45 Management Port
<b>Switch/LED</b>		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)
<b>OS support</b>		Please find the latest OS support from <a href="http://www.asus.com/">http://www.asus.com/</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension (Form Factor)</b>		615 x 444 x 44mm (1U)
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		11 Kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing included)</b>		17 Kg
<b>Power Supply</b>		<b>PS4:</b> Single 650W Platinum PSU. Rating: 100-240 Vac, 9A/5A, 50-60Hz, Class I <b>RS4/RS4-U:</b> 1+1 Redundant 450W Gold or 770W Platinum PSU. Rating: 100-240 Vac, 10A/5A, 50-60Hz, Class I
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% ( Non condensing)