

RS700-E9-RS4

High performance 1U cache server with 24 DIMMs and 4 drive bays



FEATURE

- Powered by Intel® Xeon® Scalable Platform
- 4 x 2.5" hot-swap storage bays in a 1U server
- Advanced I/O support for 3+1 expandability
- Expandable storage for faster transfer speeds dual M.2 slots with 22110-size SSD support
- Smart thermal design for energy efficiency — reduces fan power consumption by up to 20%
- User-friendly design for easier server maintenance — tool-less design for installation and removal
- Fully integrated remote server management — ASUS Control Center IT management software and ASMB9-iKVM module support

Intel® Xeon® Scalable Platform design

ASUS RS700-E9-RS4 is built on the Intel® Xeon® Scalable Platform to deliver incredible 1U server performance, packing incredible power into minimal space. 24 DIMM slots provide best-in-class memory capacity and bandwidth, and an integrated I/O controller on the processor eliminates data transfer bottlenecks caused by discrete I/O chipsets for reduced latency and dramatically faster system performance.

User-friendly design for easier server maintenance

RS700-E9-RS4 features numerous user-friendly design features that simplify server maintenance. The server's Q-code is visible from the outside of the case to make diagnosing issues easier and more convenient. A tool-less rack rail kit is included for easy server installation and removal, and a tool-less.

Advanced I/O support for 3+1 Expandability

RS700-E9-RS4 offers one full-high PCI Express 3.0 x16 slot (x16 link), one low-profile PCI Express 3.0 x16 slot (x8 link), one low-profile PCI Express 3.0 x8 slot (x8 link), and one OCP 2.0 Mezzanine slot (x16 link) to support 10G/25G/100G LAN card. The flexible expansions offer diverse applications in storage and networking to meeting the demands of future expansion and high scalability in a 1U server.

Smart thermal design for energy efficiency

RS700-E9-RS4 features a smart thermal radar design with more ambient thermal sensors for the CPU, memory, GPU, SSD, LAN card and front-panel board that provide improved temperature monitoring and enable dynamic fan speed adjustment for better power efficiency. This smart thermal design reduces fan power consumption by up to 20% and eliminates the power-sharing board for improved efficiency and lower operation costs.

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SPECIFICATION

Processor Support		2 x Socket P (LGA 3647) 1 st and 2 nd Generation Intel® Xeon® Scalable Processors Family (205W) UPI 10.4 GT/s
Core Logic		Intel® C621 PCH
Memory	Total Slots	24 (6-channel per CPU, 12 DIMM per CPU)
	Capacity	Maximum up to 7680GB
	Memory Type	DDR4 2933/2666/2400 RDIMM/LRDIMM/LRDIMM 3DS/ DCPMM* *Intel® Optane™ DC persistent memory (DCPMM)
	Memory Size	4GB,8GB, 12GB, 32GB (RDIMM) / 64GB,128GB(RDIMM 3DS) / 32GB, 64GB,128GB(LRDIMM) / 64GB,128GB ,256GB(LRDIMM 3DS) / 128GB, 256GB, 512GB (DCPMM) *Refer to Asus server AVL for latest update
Expansion Slots	Total PCI/PCI-X/PCIe/PIKE Slots	3+1
	Slot Type	1 x PCI-E x16 (Gen3 x16 link), FH, HL 1 x PCI-E x16 (Gen3 x8 link), LP, HL 1 x PCI-E x8 (Gen3 x8 link), LP, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
Disk Controller	SATA Controller	Intel® PCH 10 x SATA 6Gb/s ports + 1 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) or 9 x SATA 6Gb/s ports + 2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) Intel® RSTe (for Windows and Linux; Support software RAID 0, 1, 10 & 5)
	SAS Controller	Optional kits: ASUS PIKE II 3008 8-port SAS HBA card, ASUS PIKE II 3108 8-port SAS HW RAID card 12G SAS Support
Storage Bays		4 x 2.5" Hot-swap Storage Bays (4 x Hybrid SAS/SATA) 2 x M.2 (22110, 2280, 2260, 2242) (Support SATA/PCIe M.2,SATA RAID) *SAS support via PIKE
Networking	LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port
Graphic	VGA	Aspeed AST2500 64MB
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 GbE LAN ports 1 x RJ-45 Management LAN port
Switch/LED		Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED, 1 x Message LED, 1 x Drive LED, 1 x Location LED Front Switch/LED: 1 x Power switch/LED, 1 x Location LED, 1 x Message LED, 1 x Drive LED, LAN 1-2 LED
OS Support		Please find the latest OS support from http://www.asus.com/
Security Option		TPM 2.0
Management Solution	Software	ASUS Control Center
	Out of Band Remote Management	On-Board ASMB9-iKVM for KVM-over-IP
Dimension		686mm x 444mm x 44mm(1U), 27" x 17.48" x 1.73"
Net Weight Kg (CPU, DRAM & HDD not included)		16.8 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		18.35 Kg
Power Supply (following different configuration by region)		1+1 Redundant 800W/500W 80 PLUS Platinum Power Supply Rating: 100-127/200-240Vac, 9.4A/4.72A, 47-63Hz Class I or 240Vdc, 4.6A (240Vdc Only for China)
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing)