

RS720-E9-RS8

High performance 2U server with hybrid-storage design and high power-efficiency



FEATURE

- Powered by the Intel® Xeon® Scalable platform
- 205W CPU with 24 DIMM support
- Scalable design for growing workloads with eight 3.5-inch SATA/SAS/up to 4 NVMe HDDs, dual PCIe or SATA M.2, eight PCIe slots
- Ultrafast connectivity with an OCP 2.0 Mezzanine card for HPC applications
- Exclusive thermal radar technology for energy efficiency
- High power-efficiency with an 850W 80 Plus Titanium power supply

No.1 Performance in Industry-standard SPEC Benchmarks

RS720-E9-RS8 supports two of the latest Intel Xeon Scalable Family processors, featuring 205W CPUs with 56 cores and 112 threads for leading performance. It also has 24 memory slots that fit up to 7TB of DDR4 2666 memory for intensive computing.

Scalable Design for Growing Workloads

RS720-E9-RS8 is designed for easy scalability to fit growing businesses and multiple workloads. It is available with a choice of six PCIe Gen3 x8 or three PCIe Gen3 x16 links to fit half-length, single-deck GPU cards, and it features one PCIe x16 slot for an HBA/RAID card ready to deliver parallel computing power.

Ultrafast Connectivity for HPC Applications

RS720-E9-RS8 features two embedded 1 Gigabit Ethernet ports and supports up to 100 Gigabit interconnect speeds with the addition of PCIe adapter cards for ultrafast connectivity. Additionally, it supports one OCP 2.0 Mezzanine card (Gen3 x16 link) for HPC applications that require high-bandwidth, low-latency network support to connect multiple nodes and clusters.

Exclusive Performance Boost technology

ASUS servers feature exclusive Performance Boost technology to achieve the best server performance and agility by tuning servers to match the requirements of workloads, letting you gain greater control of your server environment.

Comprehensive IT infrastructure management

RS720-E9-RS8 features an embedded iKVM module and is bundled with ASUS Control Center to provide comprehensive out-of-band and in-band management features for small and mid-size businesses. The embedded ASMB9-iKVM module supports remote BIOS updates, fan control, standalone KVMs, video recording, and BSOD capture, providing around-the-clock remote monitoring and diagnostics — even if the operating system is down or offline — through a user-friendly, web-based graphical interface that works with all major browsers.

RS720-E9-RS8

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	8+1
	Slot Type	6 x PCI-E x16 (Gen3 x8 link) or 3 PCI-E x16 (Gen3 x16 link), FH, HL 1 x PCI-E x16 (Gen3 x16 link), LP, HL 1 x PCI-E x16 (Gen3 x8 link), FH, 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		Front bays: 8 x 3.5" or 2.5" Hot-swap Storage Device Bays (4x SATA/SAS + 4x SATA/SAS/NVMe) Rear bays (option): 2 x 2.5" hot-swap drive bays (2 x SATA/NVMe) 2 x M.2 (22110, 2280, 2260, 2242) (Support SATA/PCIe M.2,SATA RAID)
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 2.0 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		Front Switch/LED: 1 x Power switch/LED, 1 x Location switch/LED, 1 x Reset switch, 1 x HDD Access LED, 1 x Message LED, LAN 1-4 LED * LAN3-4 for Mezzazine card use Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED, 1 x Message LED, 1 x HDD LED, 1 x Location 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		750mm x 444mm x 88mm (29.52" x 17.48" x 3.46")
Net Weight Kg (CPU, DRAM & HDD not included)		15.98 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		23.25 kg
Power Supply (following different configuration by region)		1+1 Redundant 800W 80 PLUS Platinum Power Supply / 850W 80 PLUS Titanium Power Supply Rating: 100-127Vac/200-240Vac,10A/5A ,50/60Hz, Class I (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)