

RS720-E9-RS8-G

Scalable, High Performance 2U Server



2U



2



24

ASUS RS720-E9-RS8-G was designed to accelerate application performance leveraging accelerator cards and storage scalability. Achieve high-bandwidth, low-latency networking, fast communication between nodes with 1* OCP and 1* PCIe 16 PCIe Gen3 slots for your choice of high speed fabrics.

FEATURE

- Dual double-deck GPU support
- Dual M.2 support
- 6 x PCIe + 1 x OCP Expansion Slots in 2U
- Rack-optimized Design
- 8 x 3.5" Hot-swap HDD bays (4x NVMe Supported)

No.1 Performance in Industry-standard SPEC Benchmarks

RS720-E9-RS8-G 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 3TB of DDR4 2666 memory for intensive computing. RS720-E9 series rack server achieved No 1. results in the Intel Xeon® Gold 2-socket systems category for SPEC CPU 2017.

Dual GPU Support for Graphics-intensive Applications

RS720-E9-RS8-G supports two double-deck GPU cards including NVIDIA Tesla and Quadro to deliver outstanding computing throughput and unparalleled performance, ideal for graphics-intensive applications. Delivering 10.87 TFLOPS of Double-Precision Performance with two NVIDIA Tesla V100 GPU, RS720-E9-RS8-G provides maximum performance for artificial intelligence and deep learning.

Scalable Design for Growing Workloads

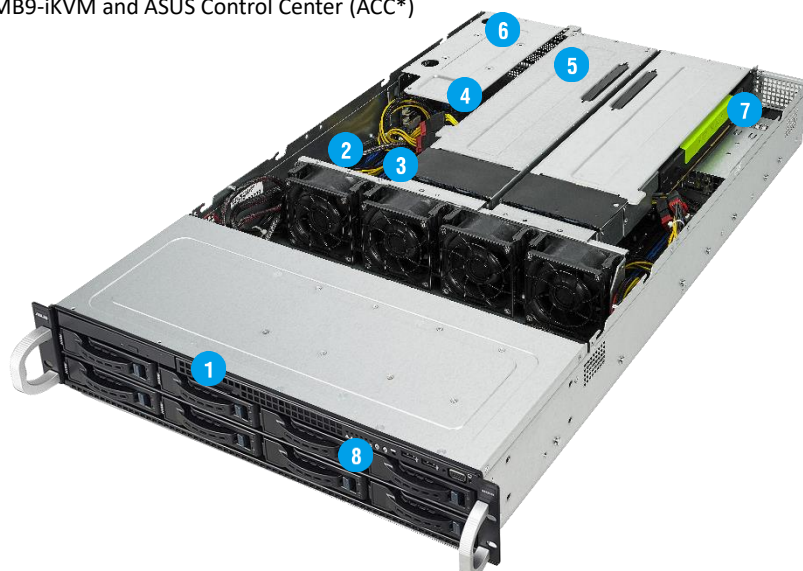
8 x 3.5" / 2.5" hot-swap storage bays (supports 4 x 2.5" NVMe or SAS or SATA devices)
2 x PCIe Gen3 x16 links to fit double-deck GPU cards, 3 x PCIe x8 links for HBA/RAID cards, 1 x PCIe x16 link low-profile slot for your choice of high speed fabrics.

Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC*)

Target market

- Data center Storage Server
- Enterprise Application
- AI /Deep Learning
- Image processing, 3D graphics, CAD Applications
- Scientific and research applications



1. Asset Tag
2. 24 x DIMM, DDR4-2666/2400 RDIMM, LRDIMM, LRDIMM 3DS
3. Intel® Xeon® Scalable Processor Family (205W)
4. Dual M.2 (NGFF), 22110/2280/2260/2242
5. 3 x PCI-E x16 (Gen3 x16 link) / 3 x PCI-E x16 (Gen3 x8 link)
6. 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
7. 1+1 1200W or 1300W 80 PLUS Platinum CRPS
8. 8 x 3.5" Hot-swap HDD Bays

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SPECIFICATION

Processor Support.		2 x Socket P0 (LGA 3647) Intel® Xeon® Scalable Processor 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 3072GB
	Memory Type	DDR4 2666/2400 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUS server AVL for the latest update
	Memory Size	32GB, 16GB, 8GB, 4GB (RDIMM), 64GB, 32GB (LRDIMM), 128GB, 64GB (LRDIMM 3DS) *Refer to ASUS server AVL for the latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	6+1
	Slot Type	2 x PCI-E x16 (Gen3 x16 link), FH, HL 1 x PCI-E x8 (Gen3 x8 link), LP, HL 3 x PCI-E x16 (Gen3 x8 link), FH, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
Disk Controller	SATA Controller	Intel® Lewisburg PCH - 10 x SATA3 6Gb/s ports - 2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) Intel® RSTe (Support software RAID 0, 1, 10 & 5) Intel® VROC (for Windows only; 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	I = internal	8 x 2.5" or 3.5" Hot-swap Storage Device Bays (4 x NVMe Supported)
	A or S will be hot-swappable	2 x M.2 (22110, 2280, 2260, 2242) (Support SATA/PCIe M.2,SATA/PCIe 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 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 Mgmt LAN port
Switch/LED		Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED 1xMessage LED, 1xHDD LED, 1x Location 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
OS Support		Windows® Server 2016, Windows® Server 2012 R2 RedHat® Enterprise Linux, SuSE® Linux Enterprise Server CentOS, Ubuntu, Vmware Please find the latest OS support from http://www.asus.com/
Management Solution	Software	ASUS Control Center (Classic)
	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)		15.98kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		23.25kg
Power Supply (following different configuration by region)		1+1 Redundant 1300w 80 PLUS Platinum Power Supply (for CPU TDP above 165W, 205W CPU) 1200w 80 PLUS Platinum Power Supply(for CPU TDP 165W and below) 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 ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)