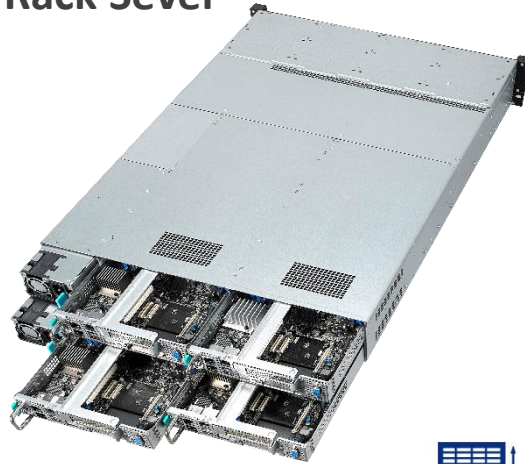


RS720Q-E9-RS24-S

Great Scalability and High Performance Computing (HPC) with 4 nodes in a 2U Rack Server



 **Form Factor** / **2U4N**
 **CPU Number** / **2**
 **Memory Number** / **12**

ASUS RS720Q-E9-RS24-S is the ideal multi-node server for high-performance computing, data analysis, and hyper converged applications. Featuring modular 4 server nodes in 2U chassis, The HPC server delivers incredible performance to meet demanding compute use requirements.

FEATURE

- Intel® Xeon® Processor Scalable Family with DDR4 Memory up to 2666Mhz
- 24 x 2.5" Hot-swap Drive Bays support 8 x SATA/SAS/NVMe + 16 x SATA/SAS Devices
- Embedded Management
 - BMC (ASMB9-iKVM)
 - ASUS Control Center (ACC)
- Visible Q-code/Port 80 LED
- Support 1 x PCIe + 1 x OCP Expansion Slots (each node)
- Thermal Radar and Auto Fan Control Features

Intel® Xeon® Scalable Processor Family

The RS720Q-E9-RS24-S is built with the latest Intel® Xeon® Processor Scalable Family, and designed for the demand of high scalability, high density computing, and wide range of existing and emerging workloads.

Industry-leading Memory Technology

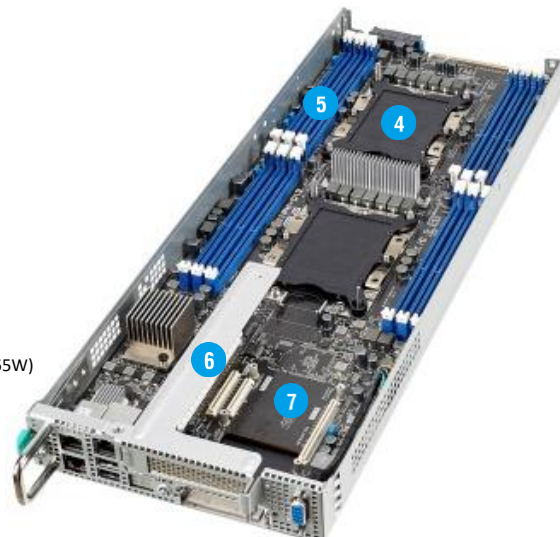
With total 48 x DIMM slots (4 nodes), RS720Q-E9-RS24-S Series supports total 6TB memory size. Each node supports 12 x DDR4 memory slots and each memory controller supports 6 channels, up to 2666Mhz of RDIMMs or LR-DIMMs/3DS. We deliver industry-leading memory technology for your business.

Thermal Radar and Auto Fan Control

The server is enabled a smart Thermal Radar and Auto Fan Control mechanism with more ambient temperature sensors for the CPU, memory, and the front inlet air flow. The feature could provide improved thermal monitoring and enable dynamic fan speed adjustment for better thermal efficiency.

Target market

- Data center Storage Server
- HPC Application



1. Asset Tag
2. 24 x 2.5" Hot-Swap HDD Bays (8 x SATA/SAS/NVMe + 16 x SATA/SAS Support)
3. 1+1 1600W/2200W 80 PLUS Platinum CRPS
4. 1st and 2nd Gen Intel® Xeon® processor Scalable family (Up to 165W)
5. 12 x DIMM, DDR4-2933/2666, RDIMM, LRDIMM, LRDIMM 3DS
6. 1 x PCI-E x16 (Gen3 x16 link)
7. 1 x OCP 2.0 Mezzanine (Gen3 x16 link)

RS720Q-E9-RS24-S

SPECIFICATION

| | | |
|---|--|--|
| Processor Support. | | 2 x Socket P0 (LGA 3647) per Node 1st and 2nd Gen Intel® Xeon® processor Scalable family (Up to 165W) UPI 10.4 GT/s |
| Core Logic | | Intel® C621 PCH |
| Memory | Total Slots | 12 (6-channel per CPU, 6 DIMM per CPU) |
| | Capacity | Maximum up to 1536GB per Node |
| | Memory Type | DDR4 2933/2666/2400/2133 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) |
| Expansion Slots | Total PCI/PCI-X/PCI-E/PIKE Slots | 1+1 per Node |
| | Slot Type | 1 x PCI-E x16 (Gen3 x16 link), LP, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link) |
| Disk Controller | SATA Controller | The Same as SAS Controller |
| | SAS Controller | Per Node: Broadcom SAS3008 (Support RAID 0, 1) - 6 x SAS 12Gb/s ports or - 6 x SATA 6Gb/s ports |
| | NVMe Controller | Per Node: Intel® VROC (Support RAID 0, 1) - 2 x NVMe ports |
| Storage Bays | I = internal A or S will be hot-swappable | 8 x 2.5" Hot-swap Storage Bays (SATA/SAS/NVMe Supported) + 16 x 2.5" Hot-swap Storage Bays (SATA/SAS Supported) |
| Networking | LAN | Per Node: 1 x Dual Port Intel I350-AM2 Gigabit LAN Controller 1 x Management Port |
| Graphic | VGA | Aspeed AST2500 64MB |
| Front I/O Ports | | N/A |
| Rear I/O Ports | | Per Node: 2 x USB 3.0 Ports 1 x VGA Port 2 x RJ-45 GbE LAN Ports 1 x RJ-45 Management Port |
| Switch/LED | | Per Node: 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 Message LED - 2 x LAN LED |
| OS Support | | 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 | | 800mm x 444mm x 88mm(2U) 31.5" x 17.48" x 3.46 |
| Net Weight Kg (CPU, DRAM & HDD not included) | | 37.5 Kg |
| Gross Weight Kg (CPU, DRAM & HDD not included, Packing included) | | 46.5 Kg |
| Power Supply (following different configuration by region) | | 1+1 Redundant 1600/2200W 80 PLUS Platinum Power Supply Rating: 200-240 Vac, 9.5A/12.6A (for each inlet), 47-63Hz, Class I |
| Environment | | Operation temperature: 10°C ~ 35°C Operation temperature: 10°C ~ 30°C (for 165W CPU) Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing) |