

RS720Q-E10-RS24

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



2U4N



2



16

ASUS RS720Q-E10-RS24 is the ideal multi-node server powered by 3rd Gen Intel® Xeon Scalable processors, with each node supporting up to 16 DIMM, one PCIe® 4.0 slot, one OCP 3.0 and two M.2, and a total of 24 NVMe/SAS/SATA drives.

FEATURE

- Powered by dual-socket 3rd Gen Intel Scalable processors with DDR4 Memory up to 3200MHz
- One PCIe 4.0 x16 slot and One OCP 3.0 module per node
- 24 x 2.5" Hot-swap Drive Bays support 8 x SATA/SAS/NVMe + 16 x SATA/SAS Devices
- 3000W 80 Plus® Titanium power supplies
- Flexible air- and liquid-cooling solution
- Onboard ASUS ASMB10-iKVM
- ASPEED AST2600 controller

3rd Gen Intel Xeon Scalable processors

The RS720Q-E9-RS8-S is built with the latest Intel® Xeon® Processor Scalable Family with 16 DDR4 Memory up to 3200MHz, and designed for the demand of high scalability, high density computing, and wide range of existing and emerging workloads.

PCIe 4.0 Ready

PCI Express® (PCIe®) 4.0 delivers 16 GT/s bandwidth, which is double the speed of PCIe 3.0, offering lower power consumption, better lane scalability and backwards compatibility.

Cooling Solutions

Air or liquid-cooled solutions. Asetek's Direct-to-Chip (D2C) liquid-cooling technology achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

Enhanced Security

PFR FPGA as the platform Root-of-Trust solution for firmware resiliency Trusted Platform Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.

RS720Q-E10-RS24

SPECIFICATION

| | | |
|---|---|--|
| Processor Support. | | 2 x Socket P+ (LGA 4189) per Node 3rd Gen Intel® Xeon® processor Scalable family UPI 11.2 GT/s |
| Core Logic | | Intel® C621A PCH |
| Memory | Total Slots Capacity Memory Type Memory Size | 16 (8-channel per CPU, 8 DIMM per CPU) Maximum up to 6144GB per Node DDR4 3200/2933 RDIMM, LRDIMM, LR-DIMM 3DS 128GB, 64GB, 32GB, 16GB RDIMM 256GB, 128GB, 64GB RDIMM 3DS 128GB, 64GB, 32GB LR-DIMM 3DS 512GB, 256GB, 128GB Intel® Optane™ DC persistent memory 200 Series (DCPMM) |
| Expansion Slots | Total PCI/PCI-X/PCI-E/PIKE Slots Slot Type | Per Node: 1 x PCI-E x16 (Gen4 x16 link), LP, HL 1 x OCP 3.0 Mezzanine (Gen4 x16 link) 2 x M.2 (Gen4 x4 link, up to 2280, PCIe, SATA) |
| Disk Controller | SATA Controller | The Same as SAS Controller |
| | SAS Controller | Per Node: Broadcom SAS3008 (Support RAID 0, 1) (Option) - 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 AST2600 64MB |
| Front I/O Ports | | N/A |
| Rear I/O Ports | | Per Node: 2 x USB 3.0 Ports 1 x VGA Port 1 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 3000W 80 PLUS Titanium Power Supply Rating: 220-240 Vac, 15.5A (x2), 50-60Hz, Class I |
| Environment | | Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing) |