

RS720QA-E12-RS8U

New Generation, High Performance 2U4N Server



2U



2



24

ASUS RS720QA-E12-RS8U was a multi-node server with high core counts and memory bandwidth designed for compute-intensive workloads. With flexible air/liquid cooling solution to provide excellent thermal performance and support a wild range of configuration, RS720QA-E12-RS8U is optimized for HPC applications.

FEATURE

- AMD EPYC 9004 Series Processors with AMD 3D V-Cache™ technology
- PCIe 5.0 Ready
- Maximum memory bandwidth
- Liquid Cooling Solutions
- Enhanced Security

4th Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology

AMD was first with X86 multi-chip-module server CPUs and continues to innovate with the 4th Gen AMD EPYC™ processors with AMD 3D V-Cache™ technology.

PCIe 5.0 Ready

PCI Express® (PCIe®) 5.0 delivers double bandwidth comparing to PCIe 4.0 which support up to 400GB/s MIC, offering lower power consumption, better lane scalability and backwards compatibility.

Cooling Solutions

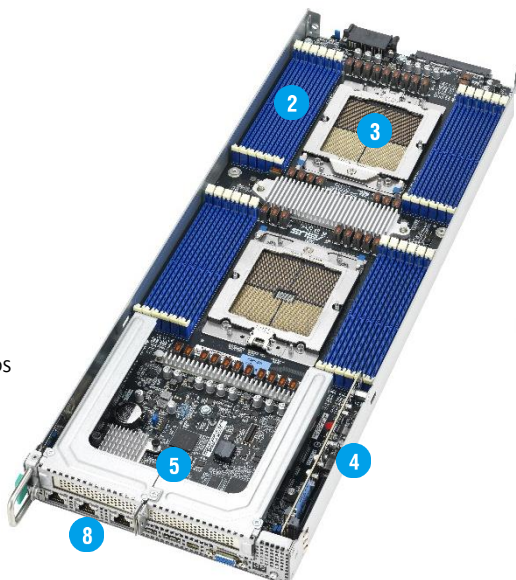
Air or liquid-cooled solutions. Delta's Direct-to-Chip (D2C) liquid-cooling technology achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

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.

Target market

- HPC Application
- Dense Computing Server



1. Asset Tag
2. 24 x DIMM, DDR5-4800, RDIMM, RDIMM 3DS
3. AMD EPYC™ 9004 Series CPU
4. Dual M.2 (Up to 22110)
5. 1 x PCI-E x16 (Gen5 x16 link) (CPU1),
1 x PCI-E x16 (Gen5 x16 link) (CPU1)
6. 1+1 2600W/3200W 80 PLUS Titanium CRPS
7. 8 x 2.5" Hot-swap HDD Bays
8. 1 x onboard Intel X710 10G LAN module



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SPECIFICATION

Processor Support.		Per node: 2 x Socket SP5 (LGA 6096) AMD EPYC™ 9004 Series Processors (up to 400W) 4th Generation AMD EPYC Processors with AMD 3D V-Cache technology
Core Logic		System on Chip (SoC)
Memory	Total Slots	Per node: 24 x DIMM slots
	Capacity	Maximum up to 6144 GB
	Memory Type	DDR5 4800/4400 RDIMM/ 3DS RDIMM *Refer to ASUS server AVL for the latest update
	Memory Size	64GB, 32GB (RDIMM), 64GB, 32GB (RDIMM 3DS) *Refer to ASUS server AVL for the latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	Per node: 2 x Expansion slots
	Slot Type	2 x PCIe Gen5 x16, LP (CPU1)
Disk Controller	SATA Controller	Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller
	SAS Controller	The Same as SATA Controller
Storage Bays	I = internal A or S will be hot-swappable	8 x 2.5" hot-swap drive bays (NVMe/SATA/SAS*) Per node: 2 x M.2 (Up to 22110) (Support PCIe M.2) *SATA/SAS support from optional CB board
Networking	LAN	Per node: 2 x 10GbE LAN port 1 x Management Port
Graphic	VGA	Aspeed AST2600 64MB
Auxiliary storage Device Bay		N/A
Front I/O Ports		N/A
Rear I/O Ports		Per node: 2 x USB 3.2 Gen1 ports 1 x VGA port 1 x Mini – DP port 1 x Management port 2 x 10GbE LAN port
Switch/LED		Per node: Rear Switch/LED: 1 x Power Switch/LED, 1 x Q-Code/Port 80 LED Front Switch/LED: 1 x Power Switch/LED, 1 x Location Switch/LED, 1 x Message LED, 2 x LAN LED
OS Support		Windows® Server 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 ASMB11-iKVM for KVM-over-IP
Dimension		847mm x 444mm x 87.3mm (2U) 33.35" x 17.48" x 3.43"
Net Weight Kg (CPU, DRAM & HDD not included)		29.25 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		33.37 kg
Power Supply (following different configuration by region)		1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium Power Supply
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing)