

# 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

### 4<sup>th</sup> 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 4<sup>th</sup> 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

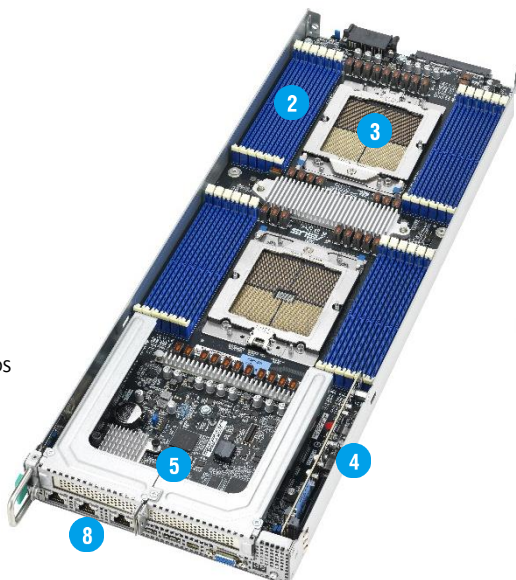
Air or liquid-cooled solutions. Delta's Direct-to-Chip (D2C) liquid-cooling technology achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

### 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



# RS720QA-E12-RS8U

# SPECIFICATION

<b>Processor Support.</b>		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
<b>Core Logic</b>		System on Chip (SoC)
<b>Memory</b>	<b>Total Slots</b>	Per node: 24 x DIMM slots
	<b>Capacity</b>	Maximum up to 6144 GB
	<b>Memory Type</b>	DDR5 4800/4400 RDIMM/ 3DS RDIMM *Refer to ASUS server AVL for the latest update
	<b>Memory Size</b>	64GB, 32GB (RDIMM), 64GB, 32GB (RDIMM 3DS) *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	Per node: 2 x Expansion slots
	<b>Slot Type</b>	2 x PCIe Gen5 x16, LP (CPU1)
<b>Disk Controller</b>	<b>SATA Controller</b>	Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller
	<b>SAS Controller</b>	The Same as SATA Controller
<b>Storage Bays</b>	<b>I = internal A or S will be hot-swappable</b>	8 x 2.5" hot-swap drive bays (NVMe/SATA/SAS*) Per node: 2 x M.2 (Up to 22110) (Support SATA/PCIe M.2) *SATA/SAS support from optional CB board
<b>Networking</b>	<b>LAN</b>	Per node: 2 x 10GbE LAN port 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Auxiliary storage Device Bay</b>		N/A
<b>Front I/O Ports</b>		N/A
<b>Rear I/O Ports</b>		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
<b>Switch/LED</b>		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
<b>OS Support</b>		Windows® Server RedHat® Enterprise Linux, SuSE® Linux Enterprise Server CentOS, Ubuntu, Vmware Please find the latest OS support from <a href="http://www.asus.com/">http://www.asus.com/</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	On-Board ASMB11-iKVM for KVM-over-IP
<b>Dimension</b>		847mm x 444mm x 87.3mm (2U) 33.35" x 17.48" x 3.43"
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		29.25 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		33.37 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium Power Supply
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% ( Non condensing)