



RS720QA-E12-RS8U

New Generation, High Performance 2U4N Server





Form 2U CPU Number 2 Memory 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-CacheTM technology
- PCIe 5.0 Ready
- Maximum memory bandwidth
- Liquid Cooling Solutions
- Enhanced Security

Target market

- HPC Application
- Dense Computing Server

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 EPYCTM processors with AMD 3D V-CacheTM technology.

PCIe 5.0 Ready

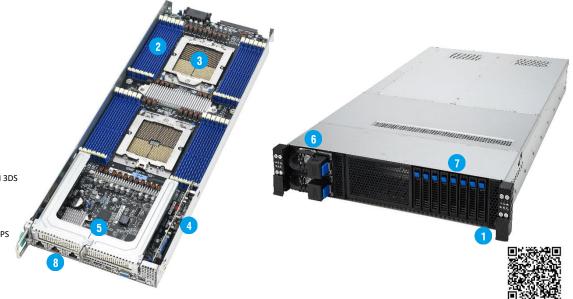
PCI Express[®] (PCIe[®]) 5.0 delivers double bandwidth comparing to PCIe 4.0 which support up to 400GB/s MIC, offering lower power consumption, better lane scalability and backwards compatibility.

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.



- 1. Asset Tag
- 24 x DIMM, DDR5-4800, RDIMM, RDIMM 3DS
 AMD EPYCTM 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)
- 1+1 2600W/3200W 80 PLUS Titanium CRPS
 8 x 2.5" Hot-swap HDD Bays
- 1 x onboard Intel X710 10G LAN module

RS720QA-E12-RS8U



SPECIFICATION

AMD EPYC. ¹⁴ 9004 Sarries Processors with AMD 3D V-Cache technology Core topic System on Chip Soci Memory System on Chip Soci Capabity Memory Total Slots Capabity Per node: 24 x DIMM slots Memory Type Memory Type DBR 3600/AR0EMM 350 SDIMM "Refer to ASUS server AVL for the latest update Refer to ASUS server AVL for the latest update Refer to ASUS server AVL for the latest update Slot Type Espansion Slots Total PC/PCLX/PCLE/PKESIost Stot Type Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller Slot Controller SAS Controller Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller Slot Type Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller Slot Type Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller Slot Type Per node: Support RAID 0, 1 Optional Broadcom SAS3008 12G Controller Slot Type NA Stronge Rays L=internal A or Swill be hot-swappathe Per node: 2x W 2(Upt 22110) [Support SATA/PCIE M.2) "SATA/SAS Support from optional G Board Networking LAN Sas Controller Sustem L/O Ports N/A Rear l/O Ports N/A Rear l/O Ports VGA Subtry Per node: Support from optional G Support from NUT, Hower Switch/ED, 1 x Management port 1 x WAnnet Port Subtry Vede Support NVA Subtry Per node: Support from NUT	Processor Support.		Per node: 2 x Socket SP5 (LGA 6096)
Core Logic System on Chip (SoC) Memory Total Slots Per node: 24 x DIMM slots Capacity Mammuru to 6144 dB Memory Size Capacity Capacity Memory Size Folder Capacity Stor Capacity Per node: Support RAID 0, 1 Optional Insolution A of Swill be hot-swappable Per node: Storage Bays L= internal A of Swill be hot-swappable A of Swill be hot-swappable Bx 2.5" hot-swap drive bays (IVVMe/SATA/SAS*) Per node: 2 x 0026 Controller Storage Bays L= internal A of Swill be hot-swappable Storage Capacity N/A Rear I/O Ports VA Storage Capacity N/A Rear I/O Ports Per node: Switch/LED Switch/LED 1 A Code/Port 8D LED For node: Switch/L			AMD EPYC TM 9004 Series Processors (up to 400W)
Total Slots Per node: 24 x DIAM dots Memory Total Slots Per node: 24 x DIAM dots Memory Type DDRS add/400 ROIMAW 305 RDIAM Per node: 24 x DIAM slots Memory Size CGR2 (RDIAM), CGR2 Scale (RDIAM), 20 SCR Per node: 24 x DIAM slots Slot Type Scale (RDIAM), CGR2 Scale (RDIAM), 20 SCR Per node: 24 x DIAM slots Slot Type Slot Type Scale (RDIAM), 20 SCR, 20 RDIAM 30 SCR Slot Type Slot Type Per node: 2 x Diam slots Slot Type Slot Type Slot Type Slot Type Slot Type <td></td> <td></td> <td>4th Generation AMD EPYC Processors with AMD 3D V-Cache technology</td>			4th Generation AMD EPYC Processors with AMD 3D V-Cache technology
Capacity Maximum up to 6144 GB Memory Type DDR5 A800/400 R0M/M 305 R0IMM Memory Size GadB, 32GB (R0IMM), 6GB, 32GB (R0IMM, 3DS) Expansion Slots Total PCI/PCI-X/PCI-E/PIKE Slots Per node: 2 x Expansion slots Sist Controller Shi Type Per node: 3 x Expansion slots Sist Controller SAS Controller Per node: 3 x FX Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Bays I = internal Per node: 3 x M Controller Storage Controller VGA A peed AST2600 GAMB Auxiliary storage Device Bay N/A Front I/O Ports NA Switch/LED VGA A peed not: 1 x Management port 1 x Management port 2 x M CONTROL NOT 1 x Mesage LED, 2 x LAN LED Switch/LED Storage Bays I = internal x M M Storagement port 2 x M CONTROL NOT 1 x Mesage LED, 2 x LAN LED Switch/LED Storage Bays Software Software Support	Core Logic		System on Chip (SoC)
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Period XUI Server XVL for the latest update Expansion Slots Total PC1/PCL-X/PCL-E/PIKE Slots Per node: 2 KPGI Gen5 X16, DP (CPU1) Disk Controller SATA Controller Per node: 2 KPGI Gen5 X16, DP (CPU1) Sats Controller SAS Controller Sass Controller Storage Bays I = Internal A or 5 will be hot-swappable Per node: 2 KAU 2(Up to 22110) (Support SATA/SAS*) Per node: 2 KAU 2(Up to 22110) (Support SATA/SAS*) Networking LAN Per node: 2 KAU 2(Up to 22110) (Support SATA/FCIE M.2) Storage Bays I = Internal A or 5 will be hot-swappable Per node: 2 KAU 2(Up to 22110) (Support SATA/FCIE M.2) Storage Days LAN Per node: 2 KAU 2(Up to 22110) (Support SATA/FCIE M.2) Storage Days VGA Apped AST2600 64MB Auxiliary storage Device Bay N/A Per node: 2 KAU 2(Up to 22110) (Support SATA/FCIE M.2) Switch/LED VGA Apped AST2600 64MB Switch/LED VGA Support SATA/SATA SAUPPORT Switch/LED VGA Support SATA/SATA/SATA/SATA/SATA/SATA/SATA/SATA		Memory Type	
Slot Type 2 x PCIe Gen5 x16, LP (PU1) Disk Controller Support RAID 0, 1 Support RAID 10, 1 Support RAID		Memory Size	
Disk Controller SATA Controller Per node: Support RAID 0, 1 Optional Broadcom SAS008 12G Controller Storage Bays I = Internal A or 5 will be hot-swappable 8 x 2.5" hot-swap drive bays (NVMe/SATA/SAS*) Per node: 2 x M.2 (Ub to 22110) (Support SATA/PCIe M.2) ************************************	Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	Per node: 2 x Expansion slots
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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 SATA/PCIe M.2) "SATA/SAS support from optional CB board Networking LAN 8 x 2.5° hot-swap drive bays (NVMe/SATA/PCIe M.2) "SATA/SAS support from optional CB board Graphic VGA Aspeed AST2600 64MB Auxiliary storage Device Bay N/A Front I/O Ports N/A Rear I/O Ports N/A Rear I/O Ports N/A Switch/LED 2 x 1058 2 Cen1 ports 1 x VGa port 1 x Management port 2 x 1060E LAN port Switch/LED VE 2 x 1050E LAN port 1 x Management port Switch/LED VE Per node: 2 x 1050E LAN port Switch/LED VE N/A Switch/LED VE Per node: 2 x 1050E LAN port Switch/LED VE N/A Switch/LED VE NOWS WITCH/LED, 1 x Q-Code/Port 80 LED Front Switch/LED, 1 x	Disk Controller	SATA Controller	
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Switch/LED Per node: Rear Switch/LED: 1 x Power Switch/LED: 1 x Power Switch/LED: 1 x Power Switch/LED, 1 x Q-Code/Port 80 LED Front 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 Out of Band Remote Management ASUS Control Center (Classic) 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 on Figuration by region) 1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium P			
Rear Switch/LED: 1 x Power Switch/LED, 1 x Q-Code/Port 80 LED Front Switch/LED, 1 x Location Switch/LED, 1 x Message LED, 2 x LAN LEDOS SupportWindows* Server RedHat* Enterprise Linux, SuSE* Linux Enterprise Server CentOS, Ubunu, Vmware Please find the latest OS support from http://www.asus.com/Management SolutionSoftware Out of Band Remote Management On-Board ASMB11-iKVM for KVM-over-IPDimensionSoftware 33.35" x 17.48" x 3.43"Net Weight Kg (CPU J RAM & HDD not included)29.25 kgGross Weight Kg (CPU, DRAM & HDD not included)33.37 kgPower Supply (following different configuration by region)1+1 Redundant 2600W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium Power Supply 1+1 Redundant 3200W 80 PLUS Titanium Power SupplyEnvironmentOperation temperature: 40°C ~ 60°C	Curitade /I ED		
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