RS720-E12-RS12U series INTEL Birch Stream

Scalable, High Performance 2U Server

Form Factor / 2U

CPU Number / 2

Memory Number / 32

ASUS RS720-E12 series is a server powered by Intel Xeon 6 Scalable processors that supports up to 32 DIMMs, three dual-slot GPU, 8/12/24 NVMe, ten PCIe slots and dual M.2 and ASUS ASMB12-iKVM.

FEATURE

- Powered by dual Intel Xeon 6 processors (formerly codenamed Sierra Forest and Granite Rapids), with DDR5 RDIMM up to 6400MHz 1DPC or MRDIMM up to 8000 MHz, 1DPC
- CPU maximum TDP of up to 350W
- GPU-optimized design allows three dual-slot GPU for AI workloads and high performance computing(HPC).
- Up to 10 PCIe® 5.0 slots.

Intel Xeon 6 Scalable processors

The RS720-E12 series is built with the latest Intel Xeon Processor Scalable Family, with 32 DDR5 RDIMM up to 6400 MHz (1DPC), delivering exceptional performance and efficiency across the widest range of workloads.

DC-MHS architecture

RS720 series built with the modular and scalable DC-MHS architecture provide seamless integration and optimization, making them ideal for modern data centers and diverse IT environments.

GPU optimized

RS720-E12 is optimized for up to 3 dual-slot GPU support, such as NVIDIA H100NVL, efficiently handling demanding graphical and computational tasks. With Intel Xeon 6 processors, this server can manage multiple processes simultaneously, ensuring rapid data transfer and improving response times.

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.

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Model Name		RS720-E12-RS8G	RS720-E12-RS12U	RS720-E12-RS24U/G
Processor Support		Intel Xeon 6 processors (formerly codenamed Sierra Forest and Granite Rapids) Intel Xeon 6700 series processors with E-cores Upcoming Intel Xeon 6 Processors with P-Cores		
Core Logic		-		
Memory	Total Slots Capacity Memory Type Memory Size	32x DDR5 DIMM slots, up to 6400/5200 MHz(1DPC/2DPC)/8000 MHz(1DPC, MCR) (8-channel per CPU, 16 DIMM per CPU) Maximum up to 8TB DDR5 6400/5600 RDIMM 128GB, 96GB, 64GB *Refer to Asus server AVL for the latest update		
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots Slot Type	Up to 10 PCIe slots 6 x PCIE Gen5 x8 link or 3 x PCIE Gen5 x16 link (FHFL) 2 x PCIE Gen5 x16 link (FHHL) 2 x OCP3.0 slot maximum support 3 double-wide GPU	Up to 10 PCIe slots 6 x PCIE Gen5 x8 link or 3 x PCIE Gen5 x16 link (FHFL) 2 x PCIE Gen5 x16 link (FHHL) 2 x OCP3.0 slot	Up to 10 PCIe slots 6 x PCIE Gen5 x8 link or 3 x PCIE Gen5 x16 link (FHFL) 2 x PCIE Gen5 x16 link (FHHL) 2 x OCP3.0 slot maximum support 3 double-wide GPU
Disk Controller	SATA Controller	2 x M.2 connector (PCI-E Gen5 x2 link) Optional kits: ASUS PIKE II 3008-8i/3108-8i Broadcom HBA CARD 9500-16I Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i Broadcom MegaRAID 9670W-24i Broadcom MegaRAID 9670W-16i *Refer to Asus server AVL for the latest update		
	SAS Controller	Optional kits: ASUS PIKE II 3008-8i/3108-8i Broadcom HBA CARD 9500-16I Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i Broadcom MegaRAID 9670W-24i Broadcom MegaRAID 9670W-16i *Refer to Asus server AVL for the latest update		
Storage Bays	I = internal A or S will be hot-swappable	8x 2.5” hot-swap drive bays Support 8x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives	12x 3.5” hot-swap drive bays Support 12x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives	24x 2.5” hot-swap drive bays Support 8x NVMe/SATA*/SAS* *HBA/ RAID card is required to support SATA/SAS hard drives
Networking	LAN	1 x Management Port		
Graphic	VGA	Aspeed AST2600 64MB		
Front I/O Ports		2 x USB 3.2 Gen1 ports		
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x Mini-DP port 1 x RJ-45 Mgmt. LAN port 1 x Type C port		
Switch/LED		Rear Switch/LED: 1 x Power switch 1 x Location switch/LED 1 x Q-Code/Port 80 LED Front Switch/LED: 1 x Power switch/LED 1 x Location switch/LED 1 x Reset switch 1 x Message LED, LAN 1-4 LED (on NIC module)** **The number of LAN LEDs available depends on the LAN		
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 ASM12-iKVM for KVM-over-IP		
Dimension		2U, 87.3 (W) x 484.65(H) x 822.16 (D) mm 19.08 (W) x 3.44 (H) x 32.37 (D) inches		
Net Weight Kg (CPU, DRAM & HDD not included)		18.195 Kg		
Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)		28.855 Kg		
Power Supply (following different configuration by region)		1+1 Redundant 80 PLUS 3200W 1+1 Redundant 80 PLUS 2700W PSU		
Environment		Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)		

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