RS700-E12-RS12U series INTEL Birch Stream

Scalable, High Performance 1U Server

Form Factor 1U | CPU Number 2 | Memory Number 32

ASUS RS700-E12 series is a server powered by Intel Xeon 6 Scalable processors that supports up to 32 DIMMs, 4/12 NVMe, four 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
- Up to 4 PCIe® 5.0 slots.

Intel Xeon 6 Scalable processors

The RS700-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

RS700 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.

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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SPECIFICATION

Model Name		RS700-E12-RS4U	RS700-E12-RS12U
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 4 PCIe slots 2 x PCIE Gen5 x16 link (FHHL) 2 x OCP 3.0 slot	
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**	4 x 3.5” hot-swap bays Support to 4 x NVMe or 4SATA*/SAS* *: HBA/ RAID card is required to support SATA and SAS hard drives	12 x 2.5" hot-swap bays Support to 12 x NVMe or 12SATA*/SAS* *: HBA/ RAID card is required to support SATA and 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		1U, 821.7(L) x 483(W) x 43.2(H) mm 32.35(L) x 19(W) x 1.7(H) inch	
Net Weight Kg (CPU, DRAM & HDD not included)		13.7 kg	
Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)		22.56 kg	
Power Supply (following different configuration by region)		1+1 Redundant 80 PLUS 2000W Titanium/Platinum PSU	
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)	

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