RS700-E11-RS4U

Scalable, High Performance 1U Server

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

ASUS RS700-E11-RS4U is a server powered by 5th Gen Intel Xeon Scalable processors that supports up to 32 DIMMs, one dual-slot GPU, 4NVMe, three plus one PCIe slots, optional OCP 3.0 slot, dual M.2 and ASUS ASMB11-iKVM.

FEATURE

- Powered by dual-socket 4th/5th Gen Intel Scalable processors.
- CPU maximum TDP of up to 350W with 32 DIMMs and support.
- GPU-optimized design allows one dual-slot GPU for AI workloads and high performance computing(HPC).
- Up to 4 all-flash NVMe
- Up to 3+1 PCIe® 5.0 slots
- Flexible onboard LAN-module design
- Flexible air-cooled solution

Target market

- High performance computing (HPC).
- AI Forecast of Utilization workload.
- Terabyte-scale data warehousing
- Virtualization applications

5th Gen Intel Xeon Scalable processors

The latest Intel Xeon scalable processors offer up to 6x more cores per CPU and 1.52x computing performance increase. ASUS RS700-E11-RS4U supports dual Intel Scalable processors to enable up to 32 DIMM slots, all flash and PCIe Gen 5.0

PCIe 5.0 Ready

PCI Express® (PCIe®) 5.0 delivers 32 GT/s bandwidth, which is double the speed of PCIe 4.0, offering lower power consumption, better lane scalability and backwards compatibility.

NVIDIA GPU Support

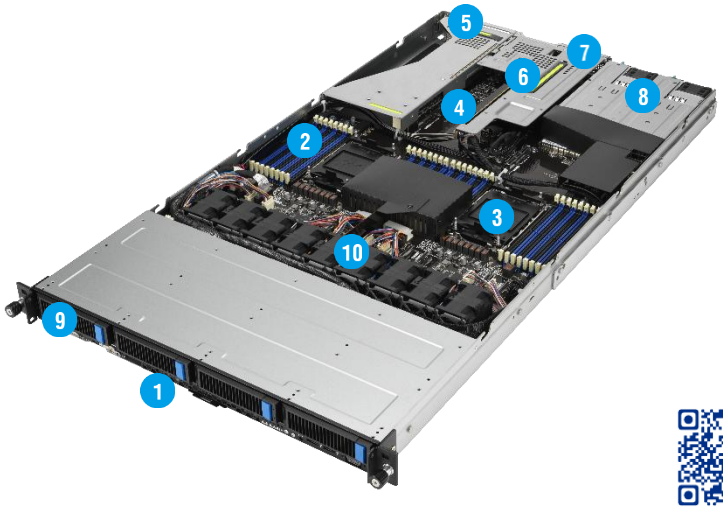
Up to 1 dual-slot GPU such as NVIDIA A100 in 1U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

Flexible Cooling options

Support two Free-air cooling solution on standard heatsink and an enhanced volume air cooling (EVAC) heatsink for efficient cooling performance.

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
2. 32 x DIMM, DDR5-4800/4400, RDIMM/ RDIMM 3DS (2DIMM per Channel)
3. Intel 4th/5th Generation Xeon® Processors
4. Dual M.2 (Up to 2280)
5. 1 x PCI-E x16 (Gen5 x16 link, FHFL) (CPU1),
   1 x PCI-E x16 (Gen5 x16 link) or OCP3.0 (CPU1)
6. 1 x PCIe x8 (Gen5 x16 link, Internal) (CPU2)
7. 1 x PCIe Gen5 x16 , LP (CPU2)
8. 1+1 Redundant AC: 1200W/1600W 80 PLUS Platinum/Titanium Power Supply
9. 4 x 3.5” Hot-swap Bays
10. 8 x Hot-swap fans

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SPECIFICATION

Processor Support.		2 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family(350w) 5th Gen Intel® Xeon® Scalable Processors Family(350w)
Core Logic		Intel® PCH C741
Memory	**Total Slots**	32 (8-channel per CPU, 16 DIMM per CPU)
	Capacity	Maximum up to 4 + 8 TB (DDR5 + Crow Pass)
	Memory Type	DDR5 5600/5200/4800/4400 RDIMM/RDIMM 3DS (2DIMM per Channel) 512GB, 256GB, 128GB *Refer to Asus server AVL for the latest update
	Memory Size	64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS * Refer to www.asus.com/support for more information
Expansion Slots	**Total PCI/PCI-X/PCI-E/PIKE Slots**	3 x Expansion slots + 1 x Internal RAID slot
	Slot Type	Up to 3+1 PCIe slot 1 x OCP 3.0 or PCIe G5 x16 FHFL 1 x PCIe G5 x16 FHFL 1 x PCIe G5 x8. LP (Internal) 1 x PCIe G5 x16, LP
Disk Controller	**SATA Controller**	12 x SATA 6Gb/s ports 2 x M.2 connector (SATA 6Gb/s & PCI-E Gen4 x8 link)
	SAS Controller	Optional kits: Broadcom HBA CARD 9500-8i Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i 12G SAS Support
Storage Bays	**I = internal** **A or S will be hot-swappable**	4x 3.5" Hot-Swap Storage Device Bays up to (4x NVMe/SATA/SAS*) 2 x M.2 (Up to 2280) (Support SATA/PCIe M.2) (CPU1) *must with PIKE/RAID card
Networking	**LAN**	1 x Quad Port Intel I350-AM4 1G LAN Controller or 1 x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller or None 1 x Management Port
Graphic	**VGA**	Aspeed AST2600 64MB
Auxiliary storage Device Bay		1 x Slim type Optical Drive Bay (optional)
Front I/O Ports		2 x USB 3.2 Gen 1 ports 1 x VGA port
Rear I/O Ports		2 x USB 3.2 Gen1 ports, 1 x VGA port , 1 x RJ-45 Management LAN port 2 x 10G or 4 x 1G RJ-45 GbE LAN port (optional)
Switch/LED		Rear Switch/LED: 1 x Q-Code/Port 80 LED, 1 x Power switch, 1 x Location switch/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		Windows® Server 2019/2022 64bit 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		842.5mm x 439.5mm x 44mm (1U) (33.17" x 1.73" x 1.73")
Net Weight Kg (CPU, DRAM & HDD not included)		13.7 kg
Gross Weight Kg **(CPU, DRAM & HDD not included, Packing include)**		22.56 kg
Power Supply **(following different configuration by region)**		1+1 Redundant AC: 1200W/1600W 80 PLUS Platinum/Titanium Power Supply Rating: 220-240Vac, 10A (x2), 50/60HzI; Rating: 100-127Vac/220-240Vac, 12A/9.5A (x2), 50/60Hz
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing)

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