

# RS720-E11-RS12U

## Scalable, High Performance 2U Server



2U



2



32

ASUS RS720-E11-RS12U is a server powered by 4th Gen Intel Xeon Scalable processors that supports up to 32 DIMMs, one dual-slot GPU, 12 NVMe, three plus one PCIe slots, optional OCP 3.0 slot, dual M.2 and ASUS ASMB11-iKVM.

### FEATURE

- Powered by dual-socket 4th Gen Intel Scalable processors.
- CPU maximum TDP of up to 350W with 32 DIMMs and support.
- GPU-optimized design allows four dual-slot GPU for AI workloads and high performance computing(HPC).
- Up to 12 all-flash NVMe.
- Up to 9 PCIe® 5.0 slots.
- Flexible onboard LAN-module design.
- Flexible air-cooled solution.

### 4th Gen Intel Xeon Scalable processors

The latest Intel Xeon scalable processors offer up to 5x more cores per CPU and 1.52x computing performance increase. ASUS RS720-E11-RS12U 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 3 dual-slot GPU such as NVIDIA A100 in 2U 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.

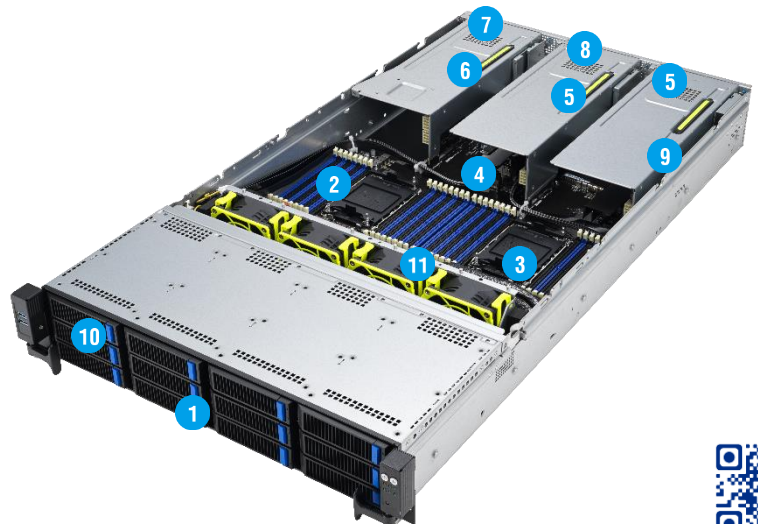
### Enhanced Security

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.

### Target market

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

1. Asset Tag
2. 32 x DIMM, DDR5-4800/4400, RDIMM/ RDIMM 3DS (2DIMM per Channel)
3. Intel 4th Generation Xeon® Processors
4. Dual M.2 (Up to 2280)
5. 6 x PCIe G5 x8 link or 3 x PCIe G5 x16 link (FHFL or FHHL) (CPU1)(CPU2)
6. 1 x PCIe G5 x16 link (FHHL)
7. 1 x OCP 3.0/PCIe Gen5 x16 link (FHHL)\* (CPU1)
8. 1 x PCIe G5 x16, LP (CPU2)
9. 1+1 Redundant AC: 2600W/1600W 80 PLUS Titanium /Platinum Power Supply
10. 12 x 3.5" Hot-swap Bays
11. 4 x Hot-swap fans



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# SPECIFICATION

<b>Processor Support.</b>		2 x Socket E (LGA 4677) 4th Gen Intel® Xeon® Scalable Processors Family(350w)
<b>Core Logic</b>		Intel® PCH C741
<b>Memory</b>	<b>Total Slots</b>	32 (8-channel per CPU, 16 DIMM per CPU)
	<b>Capacity</b>	Maximum up to 4 + 8 TB (DDR5 + Crow Pass)
	<b>Memory Type</b>	DDR5 4800/4400 RDIMM/RDIMM 3DS (2DIMM per Channel) 512GB, 256GB, 128GB Intel® Optane™ persistent memory 300 series (Crow Pass) *Refer to Asus server AVL for the latest update
	<b>Memory Size</b>	64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS * Refer to <a href="http://www.asus.com/support">www.asus.com/support</a> for more information
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	9 x Expansion slots
	<b>Slot Type</b>	Up to 9 slots 6 x PCIe G5 x8 link or 3 x PCIe G5 x16 link (FHFL or FHHL) 1 x PCIe G5 x16 link (FHHL) 1 x OCP 3.0/PCIe Gen5 x16 link (FHHL)* 1 x PCIe G5 x16, LP *maximum support 3 double-wide GPU if using OCP3.0
<b>Disk Controller</b>	<b>SATA Controller</b>	12 x SATA 6Gb/s ports 2 x M.2 connector (SATA 6Gb/s & PCI-E Gen4 x8 link)
	<b>SAS Controller</b>	Optional kits: Broadcom HBA CARD 9500-8i Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i 12G SAS Support
<b>Storage Bays</b>	<b>I = internal</b> <b>A or S will be hot-swappable</b>	12x 3.5" Hot-Swap Storage Device Bays up to (12x NVMe/SATA/SAS*) 2 x M.2 (Up to 2280) (Support SATA/PCIe M.2) (CPU1) *must with PIKE/RAID card
<b>Networking</b>	<b>LAN</b>	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
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2600 64MB
<b>Front I/O Ports</b>		2 x USB 3.2 Gen 1 ports 1 x VGA port
<b>Rear I/O Ports</b>		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)
<b>Switch/LED</b>		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
<b>OS Support</b>		Windows® Server 2019/2022 64bit 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>		840mm x 447mm x 88mm(2U) (33.07" x 17.60" x 3.46")
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		18.195 kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		25.855 kg
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant AC: 2600W/1600W 80 PLUS Titanium /Platinum Power Supply Rating: 100-127Vac/240Vac, 13.8A/16A (x2), 50/60Hz; Rating: 100-127Vac/220-240Vac, 12A/9.5A (x2), 50/60Hz
<b>Environment</b>		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% ( Non condensing)