RS720-E11-RS24U
Scalable, High Performance 2U Server

ASUS RS720-E11-RS24U is a server powered by 5th Gen Intel Xeon Scalable processors that supports up to 32 DIMMs, one dual-slot GPU, 24 NVMe, 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 four dual-slot GPU for AI workloads and high performance computing (HPC).
- Up to 24 all-flash NVMe.
- Up to 9 PCIe® 5.0 slots.
- Flexible onboard LAN-module design.
- Flexible air-cooled solution.

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 RS720-E11-RS24U 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 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/5th Generation Xeon® Processors
4. Dual M.2 (Up to 2280)
5. 2 x PCIe G5 x8 link or 1 x PCIe G5 x16 link (FHFL or FHHL)
6. 1 x OCP 3.0
7. 1 x PCIe G5 x16, LP
8. 1+1 Redundant AC: 2600W/1600W 80 PLUS Titanium /Platinum Power Supply
9. 24 x 2.5” Hot-swap Bays
10. 4 x Hot-swap fans
RS720-E11-RS24U

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 x 8 TB (DDR5 + Crow Pass)
- Memory Type: DDR5 5600/5200/4800/4400 RDIMM/RDIMM 3DS (2DIMM per Channel)
- Frequency: 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: 4 x Expansion slots
- Slot Type: Up to 4 slots 2 x PCIe G5 x8 link or 1 x PCIe G5 x16 link (FHFL or FHHL), 1 x OCP 3.0, 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)

Storage Bays
- I = internal
- A or S will be hot-swappable
- Storage Bays: 24 x 2.5" Hot-Swap Storage Device Bays up to (12 NVMe or SAS*/SATA + 12 NVMe)
- 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

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
- 840mm x 447mm x 88mm (2U)
- (33.07” x 17.60” x 3.46”)

Net Weight Kg (CPU, DRAM & HDD not included)
- 25.64 kg

Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)
- 36 kg

Power Supply
- 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

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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