

# RS720-E11-RS12U

## Scalable, High Performance 2U Server



ASUS RS720-E11-RS12U is a server powered by 5th Gen Intel Xeon Scalable processors that supports up to 32 DIMMs, one dual-slot GPU, 12 NVMe, three plus one PCle slots, optional OCP 3.0 slot, dual M.2 and ASUS ASMB11-iKVM.

#### **FEATURE**

- Powered by dual-socket 4<sup>th</sup>/5<sup>th</sup> 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 PCle® 5.0 slots.
- Flexible onboard LAN-module design.
- Flexible air-cooled solution.

### **Target market**

- High performance computing (HPC).
- · Al Forecast of Utilization workload.
- Terabyte-scale data warehousing
- Virtualization applications
- 1. Asset Tag
- 32 x DIMM, DDR5-4800/4400, RDIMM/ RDIMM 3DS (2DIMM per Channel)
- 3. Intel  $4^{th}/5^{th}$  Generation Xeon® Processors
- 4. Dual M.2 (Up to 2280)
- 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/PCle Gen5 x16 link (FHHL)\* (CPU1)
- 8. 1 x PCle G5 x16, LP (CPU2)
- 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

#### **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-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**

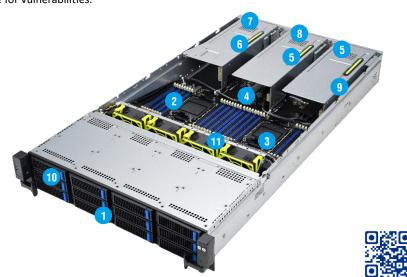
Up to 3 dual-slot GPU such as NVIDIA A100 in 2U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

#### **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.







## RS720-E11-RS12U

## 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

Total PCI/PCI-X/PCI-E/PIKE Slots **Expansion Slots** 

**Slot Type** 

9 x Expansion slots

Up to 9 slots

6 x PCIe G5 x8 link or 3 x PCIe G5 x16 link (FHFL or FHHL)

1 x PCle 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

**Disk Controller** 12 x SATA 6Gb/s ports SATA Controller

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 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) A or S will be hot-swappable

\*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 Aspeed AST2600 64MB

Graphic VGA

Front I/O Ports

2 x USB 3.2 Gen 1 ports

1 x VGA port

Rear I/O Ports  $2 \times USB 3.2 Gen1 ports, 1 \times VGA port, 1 \times RJ-45 Management LAN port$ 

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

Windows® Server 2019/2022 64bit **OS Support** 

RedHat® Enterprise Linux, SuSE® Linux Enterprise Server

CentOS, Ubuntu, Vmware

Please find the latest OS support from http://www.asus.com/

Management **ASUS Control Center (Classic) Solution** 

**Out of Band Remote Management** On-Board ASMB11-iKVM for KVM-over-IP

840mm x 447mm x 88mm(2U)

(33.07" x 17.60" x 3.46")

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

Software

18.195 kg 25.855 kg

**Gross Weight Kg** 

Dimension

(CPU, DRAM & HDD not included, Packing include)

**Power Supply** 

1+1 Redundant AC: 2600W/1600W 80 PLUS Titanium /Platinum Power Supply (following different configuration by region)

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  $^{\sim}$  60°C

Non operation humidity: 20% ~ 90% ( Non condensing)

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