

# RS700-E11-RS4U

# Scalable, High Performance 1U Server



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 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 one dual-slot GPU for AI workloads and high performance computing(HPC).
- Up to 4 all-flash NVMe
- Up to 3+1 PCIe<sup>®</sup> 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
- L. Asset Tag
- 32 x DIMM, DDR5-4800/4400, RDIMM/ RDIMM 3DS (2DIMM per Channel)
- 3. Intel 4<sup>th</sup>/5th Generation Xeon® Processors
- 4. Dual M.2 (Up to 2280)
- 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 PCle Gen5 x16 , LP (CPU2)
- 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

#### **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**

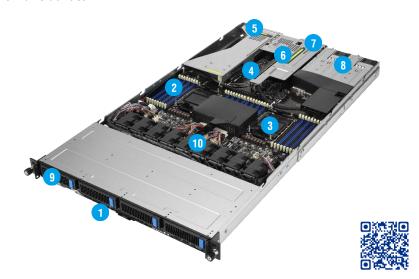
Up to 1 dual-slot GPU such as NVIDIA A100 in 1U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

#### **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.







## RS700-E11-RS4U

**Processor Support.** 2 x Socket E (LGA 4677) SPECIFICATION

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

Slot Type

3 x Expansion slots + 1 x Internal RAID slot

Up to 3+1 PCIe slot 1 x OCP 3.0 or PCle G5 x16 FHFL

1 x PCIe G5 x16 FHFL 1 x PCle G5 x8. LP (Internal)

1 x PCle 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** 

Broadcom HBA CARD 9500-8i Broadcom MegaRAID 9540-8i Broadcom MegaRAID 9560-16i

12G SAS Support

Optional kits:

**Storage Bays** 

I = internal

VGA

4x 3.5" Hot-Swap Storage Device Bays up to (4x NVMe/SATA/SAS\*)

A or S will be hot-swappable

2 x M.2 (Up to 2280) (Support SATA/PCIe M.2) (CPU1) \*must with PIKE/RAID card

LAN **Networking** 

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

**Auxiliary storage Device Bay** 

1 x Slim type Optical Drive Bay (optional)

Front I/O Ports

Graphic

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/LFD:

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

**Software** 

Solution

**Out of Band Remote Management** 

ASUS Control Center (Classic)

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")

13.7 kg

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

**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% Sut 90% (hNon condensing) 2018 ASUSTek Computer Inc. All rights reserved.