

RS720-E10-RS24U

Scalable, High Performance 2U Server



2U



2



32

2U dual-socket server powered by 3rd Gen Intel Xeon Scalable processors that supports up to 32 DIMMs, 24 NVMe, nine PCIe 4.0 slots, OCP 3.0, M.2 and ASUS ASMB10-iKVM

FEATURE

- Powered by dual-socket 3rd Gen Intel Scalable processors
- CPU maximum TDP of up to 270 With 32 DIMMs and support
- Up to 24 all-flash NVMe
- Up to 9 PCIe® 4.0 slots
- Flexible onboard LAN-module design

3rd Gen Intel Xeon Scalable processors

The latest Intel Xeon scalable processors offer up to 1.42x more cores per CPU and 1.52x computing performance increase. ASUS RS720-E10-RS24U supports dual Intel Scalable processors to enable up to 32 DIMM slots, all flash and PCIe Gen 4.0.

PCIe 4.0 Ready

PCI Express® (PCIe®) 4.0 delivers 16 GT/s bandwidth, which is double the speed of PCIe 3.0, offering lower power consumption, better lane scalability and backwards compatibility.

Scalable storage solution

ASUS RS720-E10 servers feature scalable storage solutions to support maximum performance for data center flexibility, and enable industry-standard SAS/SATA/NVMe interfacing through Broadcom Tri-Mode RAID adapters for increased connectivity and security. Up to 24 all-flash NVMe drives on front panel enable extensive storage and high-throughput performance.

Cooling Solutions

Air or liquid-cooled solutions. Asetek's Direct-to-Chip (D2C) liquid-cooling technology achieving lower power-usage effectiveness (PUE) and optimized TCO for data centers.

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

- Data center Storage Server
- Enterprise Application

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SPECIFICATION

Processor Support.		2 x Socket P+ (LGA 4189) 3rd Gen Intel® Xeon® Scalable Processors Family(270w) UPI (11.2 GT/s)
Core Logic		Intel® C621A Chipset
Memory	Total Slots	32 (8-channel per CPU, 16 DIMM per CPU)
	Capacity	Maximum up to 6TB
	Memory Type	DDR4 3200/2933 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUS server AVL for the latest update
	Memory Size	64GB, 32GB, 16GB, 8GB RDIMM 256GB, 128GB, 64GB RDIMM 3DSB 128GB, 64GB LRDIMM 128GB LR-DIMM 3DS 512GB, 256GB, 128GB Intel® Optane™ DC persistent memory 200 Series (DCPMM)
Expansion Slots	Total PCI-E/PIKE Slots	9
	Slot Type	Slot 1, 2: 2 x PCI-E x16 (Gen4 x8 link) or 1 PCI-E x16 (Gen4 x16 link), FH, FL (CPU1) Slot3: 1 x PCI-E x16 (Gen4 x16 link), FH, HL (CPU1) or 1 x OCP3.0 Mezzanine slot (Gen4 x16 link) (CPU1) Slot 4: 1 x PCI-E x8 (Gen4/Gen3 x8 link), FH, HL (CPU1) Slot 5,6: 2 x PCI-E x16 (Gen4 x8 link) or 1 PCI-E x16 (Gen4 x16 link), FH, FL (CPU2) Slot 7,8: 2 x PCI-E x16 (Gen4 x8 link) or 1 PCI-E x16 (Gen4 x16 link), FH, FL (CPU2) Slot 9: 1 x PCI-E x16 (Gen4 x16 link), LP, HL (CPU2)* *Optional for COM port *Will drop to x8 when M.2 occupied
Disk Controller	SATA Controller	Intel® PCH C621A - Intel® RSTe: Support software RAID 0, 1, 10 & 5 - Intel® VROC: Support software RAID 0, 1, 10 & 5, 50
	SAS Controller	Optional kits: ASUS PIKE II 3008 8-port SAS 12Gb/s HBA card ASUS PIKE II 3108 8-port SAS HW 12Gb/s RAID card
Storage Bays	I = internal	Front bays: 24 x 2.5" hot-swap bays (12x NVMe + 12x SATA/SAS* or 12x NVMe + 12x NVMe/SATA/SAS*)
	A or S will be hot-swappable	Rear bays (option): 2 x 2.5" hot-swap drive bays (2x NVMe) *SAS support only from SAS HBA/RAID card *must with PIKE II 3008-8i, 3108-8i/240PD(slot4) to support up to 24x SATA/SAS * Support tri-mode card
Networking	LAN	2 x M.2 connector (NGFF 2280/2260. PCIe Gen4x4 link)(CPU2)
		Optional 1 x Quad Port Intel I350-AM4 1G LAN Controller* or 1 x Dual Port Intel X710-AT2 Gigabit 10G LAN Controller Default Management Port
Graphic	VGA	Aspeed AST2600 64MB
Front I/O Ports		2 x USB 3.2 Gen 1 ports
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x VGA port 1 x RJ-45 Mgmt LAN port 4/2 x NIC ports* * The number of NIC ports available depends on the LAN Controller card installed.
Switch/LED		Front Switch/LED: 1 x Power Switch (w/ LED) 1 x Reset Switch 1 x Location Switch (w/ LED) 1 x HDD Access LED* 1 x Message LED, LAN 1/3 and 2/4 LED (on NIC module)** * The HDD Access LED is only functional when an ASUS PIKE II card is installed and connected. ** The number of LAN LEDs available depends on the LAN Controller card installed.

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		Rear Switch/LED: 1 x Port 80 LED (Q-Code) 1 x Power Switch w/ LED 1 x Location Switch w/ LED
OS Support		Windows® Server, 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 ASMB10-iKVM for KVM-over-IP
Dimension		840mm x 449mm x 88.1mm (2U) 24.21" x 17.48" x 3.46"
Net Weight Kg (CPU, DRAM & HDD not included)		18.195 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		26.855 kg
Power Supply (following different configuration by region)		1+1 Redundant 1600W 80 PLUS Platinum Power Supply 2400W 80 PLUS Titanium Power Supply
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)