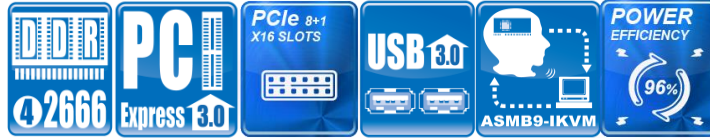**ASUS**
IN SEARCH OF INCREDIBLE

RS720-E9-RS12-E

New Generation Performance with Massive Expandability

Highlights

• Powered by the Intel® Xeon® Scalable platform

• 205W CPU with 24 DIMM support

• Scalable design for growing workloads with 12 SATA/SAS HDDs, 4 NVMe SSD, dual PCIe or SATA M.2, and 8 PCIe Gen3 x16 slots

• Ultrafast connectivity with an OCP 2.0 Mezzanine card for HPC applications

• Exclusive thermal radar technology for energy efficiency - Reduces fan power-consumption by up to 20%

• High power-efficiency with an 850W 80 Plus Titanium power supply

• Easy maintenance and debugging - Internal USB 3.0 port and microSD card support for easier access

• Comprehensive IT infrastructure management software — ASUS Control Center IT management software and ASMB9-iKVM module support

No.1 Performance in Industry-standard SPEC Benchmarks

RS720-E9-RS12-E supports two of the latest Intel Xeon Scalable Family processors, featuring 205W CPUs with 56 cores and 112 threads for leading performance. It also has 24 memory slots that fit up to 3TB of DDR4 2666 memory for intensive computing.

Scalable Design for Growing Workloads

RS720-E9-RS12-E is designed for easy scalability to fit growing businesses and multiple workloads. It is available with a choice of six PCIe Gen3 x8 link or three PCIe Gen3 x16 link slots for NVMe riser and other add-on cards, additional PCIe Gen3 x8 link slot for HBA/RAID card and low profile PCIe Gen3 x16 link slot for high speed fabric networking option.

RS720-E9-RS12-E also features multiple interface types for flexible storage configurations, including dual PCIe or SATA M.2, and OCuLink port-to-port design with Intel VROC NVMe RAID option for blazingly fast four hot-swappable 2.5-inch NVMe SSDs support.

Ultrafast Connectivity for HPC Applications

RS720-E9-RS12-E features two embedded 1 Gigabit Ethernet ports and supports up to 100 Gigabit interconnect speeds with the addition of networking add-on cards for ultrafast connectivity. Additionally, it supports one OCP 2.0 Mezzanine card (Gen3 x16 link) for HPC applications that require high-bandwidth, low-latency network support to connect multiple nodes and clusters.

Exclusive Thermal Radar Technology for Energy Efficiency

RS720-E9-RS12-E features ASUS-exclusive thermal radar technology with ambient sensors for internal and external temperature monitoring, and dynamic fan curve adjustment, which lowers fan power consumption by up to 20% and reduces total cost of ownership - ideal for data centers with extreme workloads.

Specification

Processor Support		2 x Socket P (LGA 3647)
		Intel® Xeon® Scalable Processors Family *Refer to support page for more information UPI (10.4 GT/s)
Core Logic		Intel® Lewisburg PCH C621
Memory	Total Slots	24 (6-channel per CPU, 12 DIMM per CPU)
	Capacity	Maximum up to 3072GB RDIMM
	Memory Type	DDR4 2666/2400 /2133 RDIMM DDR4 2666/2400 /2133 LRDIMM DDR4 2666/2400 /2133 LR-DIMM 3DS
	Memory Size	-
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	
	Slot Type	6 x PCI-E x16 (Gen3 x8 link) or 3 PCI-E x16 (Gen3 x16 link), FH, HL 1 x PCI-E x16 (Gen3 x16 link), LP, HL 1 x PCI-E x16 (Gen3 x8 link), FH, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link) 1 x Micro SD Card Slot
	Proprietary Slot 1	-
Disk Controller	SATA Controller	10 x SATA3 6Gb/s ports + 1 x M.2 connector (SATA 6Gb/s & PCI-E Gen3 x4 link) or 9 x SATA 6Gb/s ports + 2 x M.2 connector (SATA 6Gb/s & PCI-E Gen3 x4 link)
	SAS Controller	ASUS PIKE II 3008 8-port SAS HBA card(Optional) ASUS PIKE II 3108 8-port SAS HW RAID card(Optional) 12G SAS Support
Storage Bays	I = internal A or S will be hot-swappable	Front bays:12 x 3.5" or 2.5" Hot-swap Storage Device Bays Rear bays (option):> 2 x 2.5" hot-sway drive bays
Networking	LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN controller + 1 x Mgmt LAN
Graphic	VGA	Aspeed AST2500 with 64MB VRAM
Auxiliary Storage Device Bay (Floppy / Optical Drive)		-
Front I/O Ports		2 x USB 2.0 ports
Rear I/O Ports		2 x USB 3.0 ports, 1 x VGA port, 2 x RJ-45 GbE LAN ports, 1 x RJ-45 Mgmt LAN port
Switch/LED		Rear Switch/LED: 1 x Power switch,1 x Q-Code/Port 80 LED, 1xMessage LED, 1xHDD LED, 1x Location LED Front Switch/LED: 1 x Power switch/LED, 1 x Location switch/LED, 1 x Reset switch, 1 x HDD Access LED, 1 x Message LED, LAN 1-4 LED * LAN3-4 for Mezzanine card use
OS Support		Windows® Server 2016, Windows® 10 64-bit RedHat® Enterprise Linux SuSE® Linux Enterprise Server Ubuntu VMware Citrix XenServer Please find the latest OS support from http://www.asus.com/
Management Solution	Software	ASUS Control Center
	Out of Band Remote Management	On-Board ASMB9-iKVM for KVM-over-IP
Regulatory Compliance		BSMI, CE, C-Tick, FCC(Class A)
Dimension		750mm x 444mm x 88mm 29.52" x 17.48" x 3.46"
Net Weight Kg (CPU, DRAM & HDD not included)		15.98kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		23.25kg
Power Supply (following different configuration by region)		1+1 Redundant 800W/850W 80 PLUS Platinum Power Supply Rating: 100-127Vac/200-240Vac,10A/5A ,50/60Hz Class I (240Vdc Only for China)
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing)