

RS700A-E9-RS12V2

High performance 1U cache server with 32 DIMMs and 12 bays



1U



CPU Number

2



Memory Number

32

FEATURE

- 12 x 2.5" drive bays in 1U, the highest capacity storage on the market
- High expandability for storage and communication
- Release the power of AMD EPYC™ 7002 processor
- Best-in-class memory bandwidth and capacity
- Smart thermal design for energy efficiency

12 x 2.5" drive bays in 1U, the highest capacity storage on the market

RS700A-E9-RS12V2 fits up to 12 2.5-inch storage drives in a compact 1U form factor. With support for multiple drive configurations, including eight NVMe and four SATA drives, four NVMe and eight SATA drives, or four NVMe and eight SAS drives with an optional ASUS PIKE II card, RS700A-E9-RS12V2 provides storage flexibility for a wide range of applications.

High expandability for storage and communication

RS700A-E9-RS12V2 provides numerous expansion slots to support additional storage and networking configurations, including a PCIe 3.0 x16 slot for a 4-NVMe adapter card, two PCIe 3.0 x8 slots for ASUS PIKE II HBA/RAID and 2-NVMe adapter cards, and an OCP Mezzanine x16 slot for a high-speed networking card.

Release the power of brand new AMD EPYC™ 7002 processor

RS700A-E9-RS12V2 is built on the brand-new AMD EPYC™ 7002 platform to deliver incredible server performance. With up to 64 cores per CPU and up to 128 threads in a single 1U server, RS700A-E9-RS12V2 packs incredible power in minimal space. 32 DIMM slots provide best-in-class memory capacity and bandwidth, and an integrated I/O controller on the processor eliminates the data transfer bottlenecks caused by discrete I/O chipsets for reduced latency and dramatically faster system performance.

Best-in-class memory bandwidth and capacity

RS700A-E9-RS12V2 supports up to 32 DDR4 DIMMs for up to 4TB of RAM. An integrated I/O controller on the processor eliminates the data transfer bottlenecks caused by discrete I/O chipsets for reduced latency and dramatically faster system performance.

Smart thermal design for energy efficiency

Featuring two innovative intelligent detection technologies and multi-fan zone design, ASUS Thermal Radar 2.0 places different sensors on the CPU, GPU, DIMM, HDD and in other areas to collect localized heating information to designate dedicated fan flow automatically to reduce consumption of overall fan capacity. Additionally, the multi-fan zone design enables multiple fan curves for different zones to reduce operating time and cost required for manual adjustments and effectively enhances system reliability and thermal efficiency.

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SPECIFICATION

Processor Support		2 x Socket SP3 (LGA 4094) AMD EPYC™ 7002 Series , xGMI (External Global Memory Interface)
Core Logic		System on Chip (SoC)
Memory	Total Slots	32 (8 channel per CPU, 16 DIMM per CPU)
	Capacity	Maximum up to 4096GB
	Memory Type	DDR4 3200/2933/2666 RDIMM/LRDIMM/LRDIMM 3DS
	Memory Size	8GB, 16GB, 32GB (RDIMM) / 64GB,128GB(RDIMM 3DS) / 32 GB, 64GB,128GB (LRDIMM) / 64GB,128GB (LRDIMM 3DS) *Refer to Asus server AVL for latest update
Expansion Slots	Total PCI/PCI-X/PCIe/PIKE Slots	3+1
	Slot Type	1 x PCIe x16 (Gen3 x16 link), FH, HL 1 x PCIe x16 (Gen3 x8 link), LP, HL 1 x PCIe x8 (Gen3 x8 link), LP, HL 1 x OCP Mezz. 2.0 (Gen3 x16 link)
Disk Controller	SATA Controller	8 x SATA3 6Gb/s ports 2 x M.2 connector (SATA 6Gb/s & PCIe® Gen3 x4 link)
	SAS Controller	Optional: ASUS PIKE II 3008 8port SAS 12Gb/s HBA card ASUS PIKE II 3108 8port SAS HW 12Gb/s RAID card
Storage Bays		12 x 2.5" hot-swap drive bays - (4 x NVMe+ 4 x SATA/SAS/NVMe + 4 x SATA/SAS) 2 x M.2 (22110, 2280, 2260, 2242) *SAS support via PIKE
Networking	LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN controller + 1 x Mgmt LAN
Graphic	VGA	Aspeed AST2500 64MB
Front I/O Ports		2 x USB 3.0 ports, 1 x VGA port
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 Management LAN port
Switch/LED		Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED, 1 x Message LED, 1 x Drive LED, 1 x Location LED Front Switch/LED: 1 x Power switch/LED, 1 x Location LED, 1 x Message LED, 1 x Drive LED, LAN 1-2 LED
OS Support		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
Dimension		686mm x 444mm x 44mm 27" x 17.48" x 1.73"
Net Weight Kg (CPU, DRAM & HDD not included)		12.15 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing include)		15.75 Kg
Power Supply (following different configuration by region)		1+1 Redundant 800W 80 PLUS Platinum Power Supply Rating: 100-127Vac/200 240Vac, 9.4A/4.72A (x2), 50/60Hz Class I or 240Vdc, 4.6A (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)