

RS520-E9-RS12-E

Scalable, High Performance 2U Server



ASUS RS520-E9-RS12-E was designed to accelerate application performance leveraging accelerator cards and storage scalability. With the CPU and memory configured in a front parallel design that enables efficient airflow for excellent thermal performance, RS520-E9-RS12-E is optimized for rack placement.

FEATURE

- 150W CPU with 16 DIMM support
- Dual M.2 support
- 6 x PCIe + 1 x OCP Expansion Slots in 2U
- Rack-optimized Design
- 12 x 3.5" Hot-swap HDD bays (4x NVMe Supported)

Industry-leading memory capability

With 16 DIMM slots that support up to 2TB of fast, DDR4-2666MHz 3DS ECC RDIMMs or LRDIMMs, ASUS RS520-E9-RS12-E delivers industry-leading memory capability for your business.

Intel® Xeon® Scalable Platform design

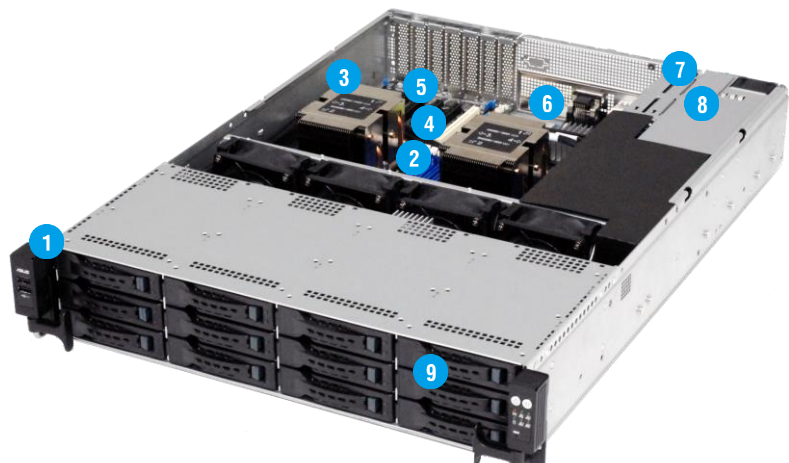
RS520-E9-RS12-E is built on the Intel® Xeon® Scalable Platform to deliver incredible performance and offer higher per-core performance and six memory channels that provide 50% more memory bandwidth and capacity for 1.65X faster average system-level performance compared to previous-generation processors.

The best storage interface combination for software-defined storage management

12 x 3.5" / 2.5" hot-swap storage bays (supports 4 x 2.5" NVMe or SAS or SATA devices)

Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC*)



1. Asset Tag
2. 16 x DIMM, DDR4-2933/2666/2400/2133, RDIMM, LRDIMM, LRDIMM 3DS
3. Intel® Xeon® Scalable Processor Family (150W)
4. Dual M.2 (NGFF), 2280/2260/2242
5. 2 x PCI-E x16 (Gen3 x16 link) / 4 x PCI-E x8 (Gen3 x8 link)
6. 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
7. 2 x 2.5" Hot-Swap SSD Bays (SATA Support)
8. 1+1 800W 80 PLUS Platinum CRPS
9. 12 x 3.5" Hot-swap HDD Bays

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SPECIFICATION

Processor Support.		2 x Socket P0 (LGA 3647) 1st and 2nd Generation Intel® Xeon® Scalable Processor Family (150W) UPI 10.4 GT/s
Core Logic		Intel® C621 PCH
Memory	Total Slots	16 (6-channel per CPU, 8 DIMM per CPU)
	Capacity Memory Type	Maximum up to 4096GB DDR4 2933 (1 DIMM per Channel) DDR4 2666/2400/2133 RDIMM/LRDIMM/LRDIMM 3DS (2DIMM per Channel) *Refer to Asus server AVL for the latest update *if 2DPC, 2933MHz speed will drop to 2666MHz
	Memory Size	4GB,8GB, 12GB, 32GB (RDIMM) / 64GB,128GB(RDIMM 3DS) / 32GB, 64GB,128GB(LRDIMM) / 64GB,128GB ,256GB(LRDIMM 3DS) *Refer to Asus server AVL for latest update
Expansion Slots	Total PCI/PCI-X/PCI-E/PIKE Slots	6+1
	Slot Type	2 x PCI-E x16 (Gen3 x16 link), LP, HL 4 x PCI-E x8 (Gen3 x8 link), LP, HL 1 x OCP 2.0 Mezzanine (Gen3 x16 link)
Disk Controller	SATA Controller	Intel® Lewisburg PCH - 11 x SATA 6Gb/s ports (8 by 2 mini-SAS Connector) -2 x M.2 connector(SATA 6Gb/s & PCI-E Gen3 x4 link) Intel® RSTe (Support software RAID 0, 1, 10 & 5) Intel® VROC (for Windows only; Support software RAID 0, 1, 10 & 5)
	SAS Controller	Optional kits: ASUS PIKE II 3008 8-port SAS HBA card ASUS PIKE II 3108 8-port SAS HW RAID card 12G SAS Support
Storage Bays	I = internal A or S will be hot-swappable	12 x 2.5" or 3.5" Hot-swap Storage Device Bays (4 x NVMe Supported) 2 x 2.5" Hot-Swap Storage Device Bays (Rear) (SATA HDD/SSD Only) 2 x M.2 (2280, 2260, 2242) (Support SATA/PCIe M.2,SATA/PCIe RAID)
Networking	LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port
Graphic	VGA	Aspeed AST2500 64MB
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 Q-Code/Port 80 LED, 1 x Power switch, 1 x Location switch/LED, 1 x HDD LED, 1 x Message 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		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 ASMB9-iKVM for KVM-over-IP
Dimension		615mm x 444mm x 88mm (2U) 24.21" x 17.48" x 3.46"
Net Weight Kg (CPU, DRAM & HDD not included)		24.55 kg
Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)		30.1 kg
Power Supply (following different configuration by region)		1+1 Redundant 800W 80 PLUS Platinum Power Supply Rating: 100-127/200-240 Vac, 9.4 A/4.72 A, 47-63 Hz, Class I
Environment		Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)