

RS520-E9-RS8 V2

Scalable, High Performance 2U Server



ASUS RS520-E9-RS8 V2 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-RS8 V2 is optimized for rack placement.

FEATURE

- 205W CPU with 16 DIMM support
- Dual M.2 support
- 6 x PCIe + 1 x OCP Expansion Slots in 2U
- Rack-optimized Design
- 8 x 3.5" Hot-swap HDD bays (4x NVMe Supported)

High Speed 2U storage capacity and additional OS kernel disk

RS520-E9-RS8 V2 is equipped with 8 3.5" drive bays (4 x NVMe Supported). The hot-swappable design provides non-stop high availability, making short work of maintenance.

Optimized Cooling Efficiency

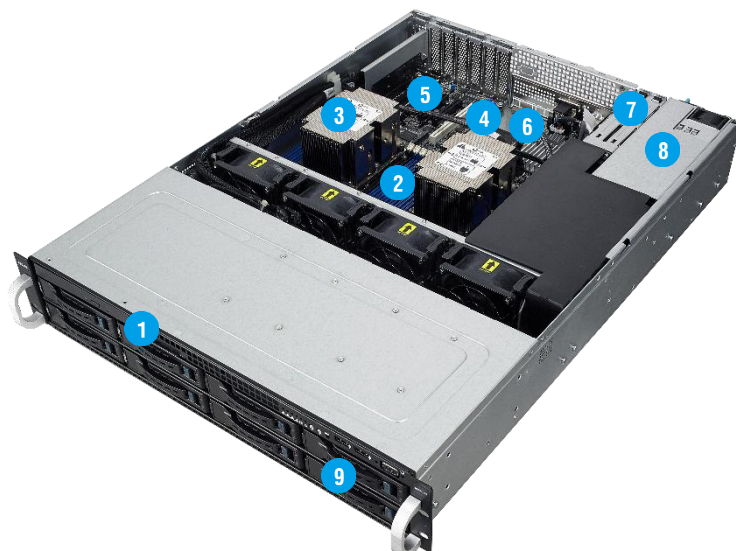
RS520-E9-RS8 V2 offers excellent thermal solution, heat dissipation and energy savings. It's even possible to adjust the fan speed manually, so you have flexible choice to meet different working environment.

ASUS PIKE II & 12G SAS Integration

ASUS PIKE II offers the latest 12Gb/s SAS together with PCI-E 3.0 solution.

Server Management Solution

The latest ASMB9-iKVM module enables remote BIOS updates, standalone KVM/Java utilities, video recording and BSOD capture.



1. Asset Tag
2. 16 x DIMM, DDR4-2933/2666/2400/2133, RDIMM, LRDIMM, LRDIMM 3DS
3. Intel® Xeon® Scalable Processor Family (205W)
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. 8 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 (205W) 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 | 8 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 |
| Auxiliary Storage Device Bay (Floppy / Optical Drive) | | 1 x slim-type Optical Drive Bay, Options: No Device/DVD-RW |
| 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 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) | | 19.7 kg |
| Gross Weight Kg (CPU, DRAM & HDD not included, Packing included) | | 27.97 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 ~ 60°C Non operation humidity: 20% ~ 90% (Non condensing) |