

ASUS RS540-E9-RS36-E

Extremely High-Density 4U Storage Server



Mass storage & flexibility in 4U and additional OS Kernel Disk
RS540-E9-RS36-E is equipped with 36 SAS/SATA 3.5-inch disk drive bays (24 front + 12 rear), and 2.5" hot-swap HDD bays per enclosure. The hot-swappable design provides non-stop high availability, making short work of maintenance. RS540-E9-RS36-E also offers great freedom when it comes to the choice of operating system drive type and placement, with M.2 slot available, and two hot-swappable 2.5-inch SSD bays.

Highlights

- Optimized Cooling Efficiency
- Diverse disk storage
- ASUS PIKE II Technology for SAS 12G
- Additional Storage for OS
- Dual M.2 Support
- OCP 2.0 Mezzanine
- Comprehensive IT infrastructure management software — [ASUS Control Center \(ACC\)](#) IT management software and ASMB9-iKVM module support

Optimized Cooling Efficiency

RS540-E9-RS36-E 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. While ASUS latest 12Gb/s SAS doubles the data rate running at twice the speed of the previous generation, PCI-E 3.0 offers high reliability and faster speed connection. ASUS PIKE II meets user needs with support for 6Gb/s SATA and 12Gb/s SAS storage and integrated RAID data protection. Just placing the PIKE II card can immediately enlarge the capacity, improve the performance, and strengthen the signaling, making it the great upgrade option. Additionally, multiple HBAs allow multi-paths which improve over performance.

*PIKE II Card by default needed

Flexibility to grow with your business

RS540-E9-RS36-E comes with a wide range of ports to provide a flexible and cost-effective computing environment with the ability to grow together with your business. RS540-E9-RS36-E features:

- A 4U rack-optimized design
- 36 x 3.5" Hot-swap HDD bays (SATA/SAS Supported)
- 2 x Hot-Swap 2.5" Storage Bays (Rear)
- 6 PCIe + 1 OCP expansion slots in a 4U rack unit
- OCP 2.0 Mezzanine(Gen3 x16 Link)
- Dual M.2 support (SATA 6Gb/s & PCI-E Gen3 x4 link)

Specification

Processor Support		2 x Socket P0 (LGA 3647) 1st Gen Intel® Xeon® Processor Scalable Family 2nd Gen Intel® Xeon® Processor Scalable Family (85W) UPI 10.4 GT/s
Core Logic		Intel® C621 PCH
Memory	Total Slots	16 (4-channel per CPU, 8 DIMM per CPU)
	Capacity	Maximum up to 512GB RDIMM/Maximum up to 2048GB RDIMM 3DS/Maximum up to 2048GB LRDIMM/Maximum up to 4096GB LR-DIMM 3DS
	Memory Type	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)
	Proprietary Slot 1	-
Disk Controller	SATA Controller	<u>Intel® 621 PCH</u> - 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) <u>Intel® RSTe</u> (Support software RAID 0, 1, 10 & 5)
	SAS Controller(RAID Card)	ASUS PIKE II 3008 8-port SAS 12G/s HBA card or ASUS PIKE II 3108 8-port SAS 12G/s HW RAID card(Default)
Storage Bays	I = internal A or S will be hot-swappable	24 x Front Hot-Swap 3.5"/ 2.5" Storage Bays (BP w/Expander)* 12 x Rear Hot-Swap 3.5"/ 2.5" Storage Bays (BP w/Expander)* 2 x Hot-Swap 2.5" Storage Bays (Rear) 2 x M.2 (2280, 2260, 2242) (Support SATA/PCIe M.2,SATA/PCIe RAID) *PIKE II Card needed (Default)
Networking	LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN controller 1 x Management Port
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 3.1 Gen 1 ports, 1 x VGA port, 2 x RJ-45 GbE LAN ports, 1 x RJ-45 Mgmt LAN port
Switch/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 Rear Switch/LED: 1 x Power switch, 1 x Q-Code/Port 80 LED, 1 x Message LED, 1 x HDD LED, 1 x Location LED
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	ASMB9-iKVM for KVM-over-Internet
Regulatory Compliance		CE, FCC (Class A)
Dimension		615mm x 447mm x 176mm (4U), 24.21" x 17.6" x 6.92"
Net Weight Kg (CPU, DRAM & HDD not included)		27.73 Kg
Power Supply (following different configuration by region)		1+1 Redundant 800W 80 PLUS Platinum Power Supply Rating: 100-127Vac/200-240Vac,10A/5A ,50/60Hz, Class I
Environment		Operating temperature: 10°C – 35°C Non operation temperature: -40°C – 70°C Non operation humidity: 20% – 90% (Non condensing)