

RS540-E9-RS36-E

Double-sided high-capacity 4U storage server
with support for up to 36 drives



4U



2



16

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.

FEATURE

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

Outstanding high-capacity storage server

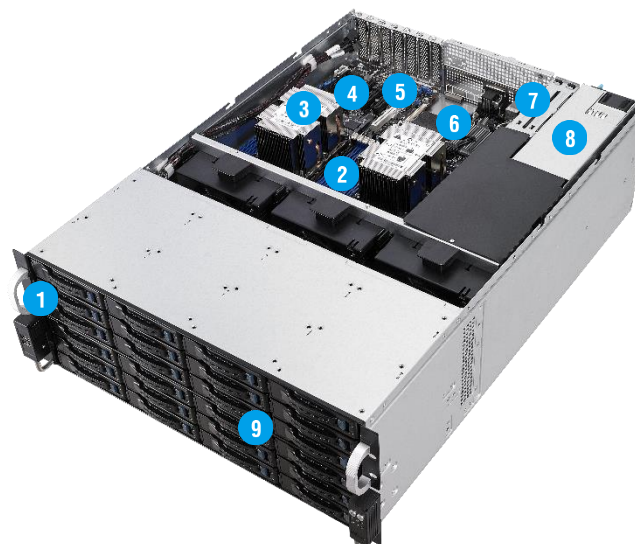
RS540-E9-RS36-E offers an optimal balance of server storage utilization, performance and cost with a hybrid storage configuration that has capacity for up to 36 drives in a 4U system, plus two optional hot-swappable 2.5-inch SATA SSDs and two optional M.2 SSDs.

Accelerate your workloads

To effectively manage the storage demands of growing amounts of data, RS540-E9-RS36-E features a double-sided storage placement design with support for up to 24 3.5-inch or 2.5-inch drives in the front and 12 3.5-inch or 2.5-inch drives in the back, making it an adaptable architecture for diverse workloads.

Rack-optimized design for cooling efficiency

The rack-optimized RS540-E9-RS36-E supports 1+1 redundant 800W/1600W 80 Plus Platinum power supplies, which are 94% efficiency for AC to DC conversion, and allows your server to keep working even if one power supply requires maintenance, enabling uninterrupted operation.



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/1600W 80 PLUS PLATINUM CRPS
9. 36 x 3.5" Hot-swap HDD Bays

RS540-E9-RS36-E

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

Maximum up to 4096GB

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)

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

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

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 447mm x 176mm (4U)
24.21" x 17.6" x 6.92"

Net Weight Kg (CPU, DRAM & HDD not included)

27.73 kg

Gross Weight Kg (CPU, DRAM & HDD not included, Packing included)

36.1 kg

Power Supply

(following different configuration by region)

1+1 Redundant 800W 80 PLUS Platinum Power Supply (for 85W CPU and DDR4 up to 32G/pcs; HDD up to 10W/pcs)
Rating: 100-127Vac/200-240Vac,10A/5A ,50/60Hz, Class I
1+1 Redundant 1600W 80 PLUS Platinum Power Supply(CPU up to 150W)
Rating: 100-127V/200-240Vac, 13A/9.5A, 50-60Hz, Class I

Environment

Operation temperature: 10°C ~ 35°C
Non operation temperature: -40°C ~ 70°C
Non operation humidity: 20% ~ 90% (Non condensing)