

Storage SuperServer SSG-641E-E1CR36L

4U front/rear-loading storage server with 36 hot-swap 3.5" SAS/SATA bays (6 optional NVMe hybrid) and PCIe 5.0



More details here

Key Applications

Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Appliance Optimized Storage Building Blocks,

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots;
- 2x 10 GbE onboard via Broadcom BCM57416
1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;
- 36x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 7x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HBA Controller support via Broadcom® 3808;



Form Factor

4U Rackmount
Enclosure: (17.2" x 7" x 27.5")
Package: (27" x 15" x 39")

Processor

Dual Socket E (LGA-4677)
5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors

System Memory

Slot Count: 16 DIMM slots
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

Drive Bays Configuration

Default: Total 38 bays

- 12 rear hot-swap 3.5" SAS/SATA drive bays
- 24 front hot-swap 3.5" SAS/SATA drive bays
- 2 rear hot-swap 2.5" SATA drive bays

Option A: Total 6 bays

- 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays

(*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)

M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)

Expansion Slots

Default

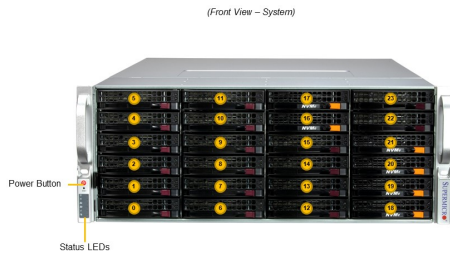
- 4 PCIe 5.0 x16 (in x16) LP slots
- 2 PCIe 5.0 x8 (in x8) LP slots

On-Board Devices

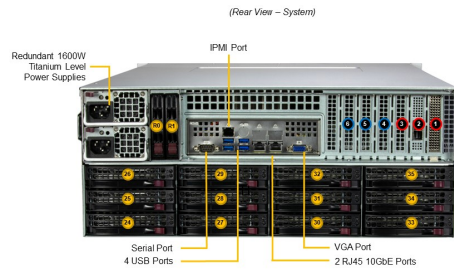
Chipset: Intel® C741
Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)
USB: 4 USB 3.0 ports(rear)
Video: 1 VGA port(Rear)
Serial: 1 COM port(Rear)
TPM: 1 TPM header



Location	Description
1 - 24	24 Hot-swap 3.5" SATA/SAS Drive Bays
19 - 24	6 10W/16 Drive Bays (optional)



Drive Bay	Description
1 - 12	12 Hot-swap 3.5" SATA/SAS Drive Bays
19 - 24	2 Hot-swap 2.5" SATA3 Drive Bays

Slot	Slot Description
1	PCIe 5.0 x8 (occupied by 2008 or 3008 SAS controller)
2	PCIe 5.0 x16 (occupied by ACM for external SAS)
3, 4, 5	PCIe 5.0 x16
6	PCIe 5.0 x8

System Cooling	Fans: 7 Heavy Duty 8cm Fan(s)
Power Supply	2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7+1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	Super X13DEI-T
Chassis	CSE-847BTS-R1K68LPBP5