

# Storage SuperServer SSG-641E-E1CR36H

4U front/rear-loading storage server with 36 hot-swap 3.5" SAS/SATA bays (6 optional NVMe hybrid, SAS hardware RAID) 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%);
- HW RAID support via Broadcom® 3908;



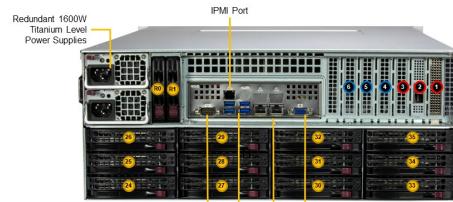
Form Factor	4U Rackmount Enclosure: (17.2" x 7" x 27.5") Package: (27" x 15" x 39")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	<p>Default: Total 38 bays</p> <ul style="list-style-type: none"> <li>• 12 rear hot-swap 3.5" SAS/SATA drive bays</li> <li>• 2 rear hot-swap 2.5" SATA drive bays</li> <li>• 24 front hot-swap 3.5" SAS/SATA drive bays</li> </ul> <p>Option A: Total 6 bays</p> <ul style="list-style-type: none"> <li>• 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays</li> </ul> <p>(*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 2 M.2 NVMe slots (M-key 2280/22110)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x16 (in x16) LP slots</li> <li>• 2 PCIe 5.0 x8 (in x8) LP slots</li> </ul>
On-Board Devices	<p>Chipset: Intel® C741</p> <p>Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416</p>
Input / Output	<p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)</p> <p>USB: 4 USB 3.0 ports(rear)</p> <p>Video: 1 VGA port(Rear)</p> <p>Serial: 1 COM port(Rear)</p> <p>TPM: 1 TPM header</p>

(Front View – System)



Location	Description
1 - 24	24 Hot-swap 3.5" SATA3/SAS3 Drive Bays
10 - 16	6 NVMe Drive Bays (optional)

(Rear View – System)



Drive Bay	Description
1 - 12	12 Hot-swap 3.5" SATA3/SAS3 Drive Bays
10 - 12	2 Hot-swap 2.5" SATA3 Drive Bays

Slot Description
PCle 5.0 x8 (occupied by 3808 or 3808 SAS controller)
PCle 5.0 x16 (occupied by AOM for external SAS)
PCle 5.0 x16
PCle 5.0 x8

CPU1 CPU2

**System Cooling**

Fans: Up to 7 Heavy Duty 8cm Fan(s)  
 Air Shroud: 1 Air Shroud

**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 to 35°C (50°F to 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**