

# 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

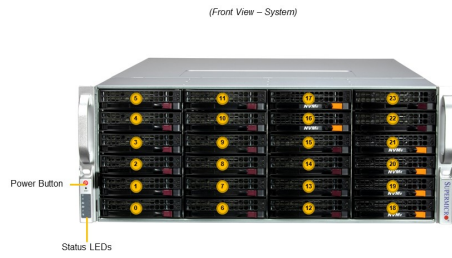
Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Appliance Optimized Storage Building Blocks,

## Key Features

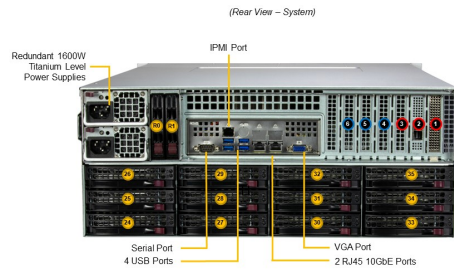
- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots;
- 2x 10 GbE onboard via Broadcom BCM57416  
1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;
- 36x 3.5"/2.5" Hot-swap SAS3/SATA3 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;



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



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



Drive Bay	Description
10 - 16	12 Hot-swap 3.5" SATA/SAS Drive Bays
17 - 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	PCIe 5.0 x16
4	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