Storage SuperServer SSG-641E-E1CR36L
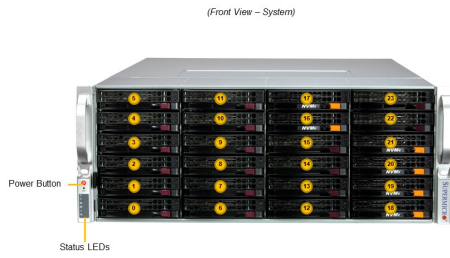
Key Applications

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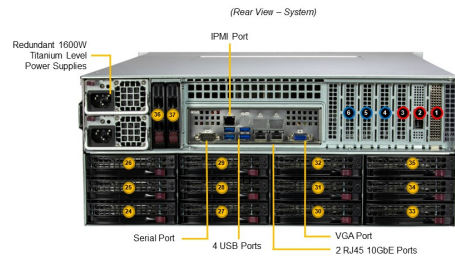
Key Features

- 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	36x 3.5" hot-swap SATA3/SAS3 drive bays (6x 2.5" NVMe hybrid)(2x 2.5" hot-swap SATA3 rear drive bays) 2 M.2 NVMe M-Key, 2280 and 22110
Expansion Slots	2 PCIe 5.0 x8 LP slot(s) 4 PCIe 5.0 x16 LP slot(s) Note: PCIe slot 1 & 2 are occupied by the Storage Controller/JBOD Expansion Module
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2x 10GbE BaseT with Broadcom BCM57416 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated IPMI LAN port 2 Onboard 10 GbE LAN Ports USB: 4 USB 3.0 port(s) (4 Rear_USB) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port

(Front View – System)

(Rear View – System)

Location	Description
0 - 23	24 Hot-swap 3.5" SATA3/SAS3 Drive Bays
16 - 21	6 NVMe Drive Bays (optional)

Redundant 1600W Titanium Level Power Supplies

IPMI Port

Serial Port

4 USB Ports

VGA Port

2 RJ45 10GbE Ports

Location	Description
1	PCIe 5.0 x8 (occupied by 3908 or 3808 SAS controller)
2	PCIe 5.0 x16 (occupied by AOM for external SAS)
3	PCIe 5.0 x16
4 - 5	PCIe 5.0 x16
6	PCIe 5.0 x8

Location	Description
24 - 35	12 Hot-swap 3.5" SATA3/SAS3 Drive Bays
36 - 37	2 Hot-swap 2.5" SATA3 Drive Bays

CPU1 CPU2

System Cooling	Fans: 7 Heavy Duty 8cm Fan(s)
Power Supply	1600W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0

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	Height: 7" Width: 17.2" Depth: 27.5" Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg) Packaging: 15" x 27" x 39" Available Color: Silver
Operating Environment	ROHS: 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