

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

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

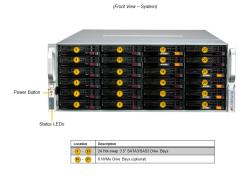
1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;

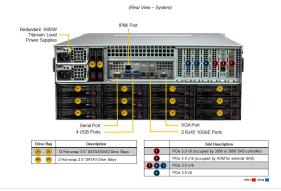
- 36x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 7x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HBA Controller support via Broadcom® 3808;



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 bay(s) • 12 rear hot-swap 3.5" SAS/SATA drive bay(s) • 24 front hot-swap 3.5" SAS/SATA drive bay(s) • 2 rear hot-swap 2.5" SATA drive bay(s) Option A: Total 6 bay(s) • 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bay(s) (*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 slot(s) (M-key 2280/22110)
Expansion Slots	Default • 4 PCIe 5.0 x16 (in x16) LP slot(s) • 2 PCIe 5.0 x8 (in x8) LP slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416
Input / Output	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







System Cooling	Fans: 7 Heavy Duty 8cm Fan(s)
Power Supply	2x 1600W Redundant Titanium Level Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline; TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
	Super Diagnostics Offline, 143. Superfilicto Hilli-Agent Service (143), SAA(flew:)
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-condesning)
	Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super X13DEI-T
Chassis	CSE-847BTS-R1K68LPBP5