

Storage SuperServer SSG-640P-E1CR36H

4U front/rear-loading storage server with 36 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) and PCIe 4.0



More details here

Key Applications

Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database,

Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM + 2 Intel® Optane™ Persistent Memory Dedicated Slots;
- 2x 10Gbe
Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 36 3.5"/2.5" Hot-swap SAS3/SATA3 drives (4 Hybrid NVMe), 2x Rear SATA Slots, 1x SATA/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 P+ (LGA-4189)
3rd Gen Intel® Xeon® Scalable processors
Up to 38C/76T; Up to 57MB Cache per CPU

System Memory

Slot Count: 16 DIMM slots
Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4

Drive Bays Configuration

Default: Total 38 bays

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

(*SAS support may require additional storage controller and/or cables)
M.2: 1 M.2 NVMe slot (M-key)

Expansion Slots

Default

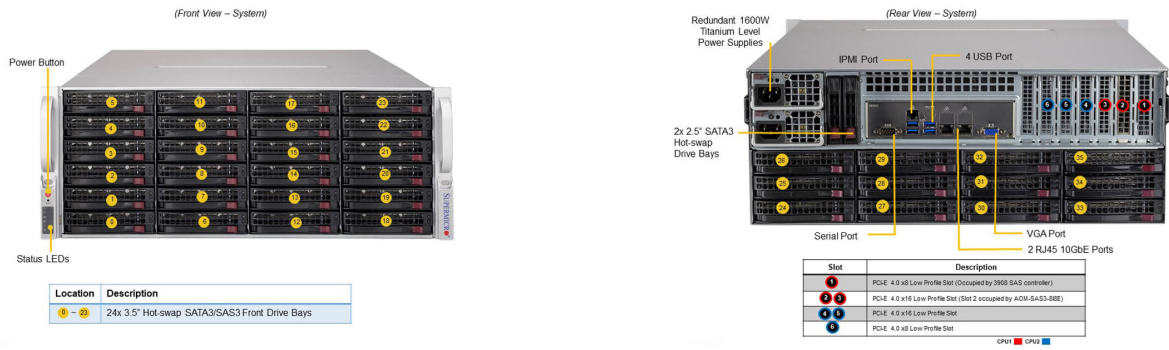
- 3 PCIe 4.0 x16 LP slots
- 1 PCIe 4.0 x8 LP slot

On-Board Devices

Chipset: Intel® C621A
Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
USB: 4 USB 3.0 ports(rear)
Video: 1 VGA port
DOM: 2 SuperDOM (Disk on Module) ports



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 128MB 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 4+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-operating Relative Humidity: 5% to 95% ()
Motherboard	Super X12DPi-NT6
Chassis	CSE-847BTS-R1K68LPBP4