

Storage SuperServer SSG-640P-E1CR36L

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



More details here

Key Applications

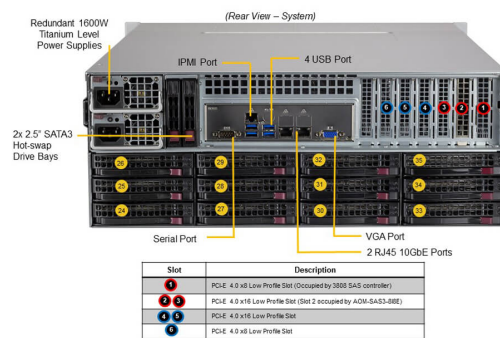
Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Density Optimized Storage Building Block,

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%);
- HBA Controller support via Broadcom® 3808;



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|---------------------------------|--|
| 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 <ul style="list-style-type: none"> • 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, please see the optional parts list for details) M.2: 1 M.2 NVMe slot (M-key) |
| Expansion Slots | Default <ul style="list-style-type: none"> • 3 PCIe 4.0 x16 LP slots • 1 PCIe 4.0 x8 LP slot |
| On-Board Devices | Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550 BMC: ASPEED AST2600 BMC |
| 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%) power supplies

System BIOS

BIOS Type: AMI 128MB SPI Flash EEPROM

Management

SuperCloud Composer® (SCC); 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: 4+1 Phase-switching voltage regulator
Monitors for CPU Cores, Chipset Voltages, Memory
Fan: Fans with tachometer monitoring
Pulse Width Modulated (PWM) fan connectors
Status monitor for speed control
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