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

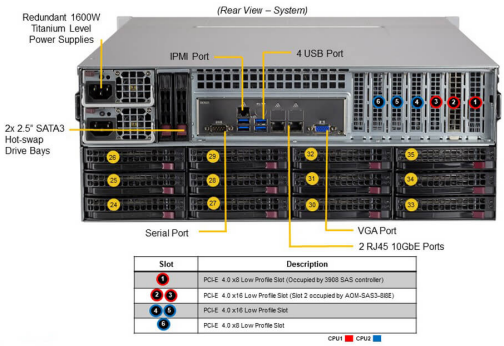
- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM + 2 Intel® Optane™ Persistent Memory Dedicated Slots;
- 2x 10Gbe
  Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 36 3.5"/2.5" Hot-swap SAS3/SATA3 drives (4 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 bay(s) • 24 front hot-swap 3.5" SAS/SATA drive bay(s) • 12 rear hot-swap 3.5" SAS/SATA drive bay(s) • 2 rear hot-swap 2.5" SAS*/SATA drive bay(s) (*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(s) (M-key)
Expansion Slots	Default • 3 PCIe 4.0 x16 LP slot(s) • 1 PCIe 4.0 x8 LP slot(s)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550
Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 4 USB 3.0 port(s) (rear) Video: 1 VGA port(s) DOM: 2 SuperDOM (Disk on Module) port(s)

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Location	Description
0 ~ 23	24x 3.5" Hot-swap SATA3/SAS3 Front Drive Bays



Slot	Description
1	PCI-E 4.0 x8 Low Profile Slot (Occupied by 3808 SAS controller)
2 3	PCI-E 4.0 x16 Low Profile Slot (Slot 2 occupied by AOM-SAS3-8I8E)
4 5	PCI-E 4.0 x16 Low Profile Slot
6	PCI-E 4.0 x8 Low Profile Slot

CPU1 CPU2

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 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 ~ 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-operating Relative Humidity: 5% to 95% ()
Motherboard	**Super X12DPi-NT6**
Chassis	**CSE-847BTS-R1K68LPBP4**

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