# Storage SuperServer SSG-620P-E1CR24H
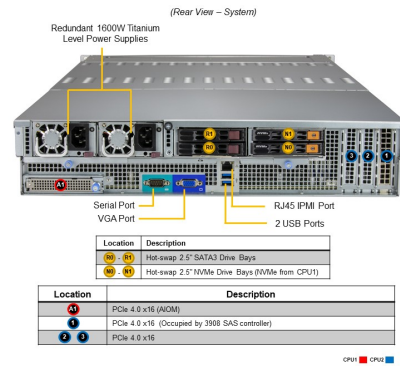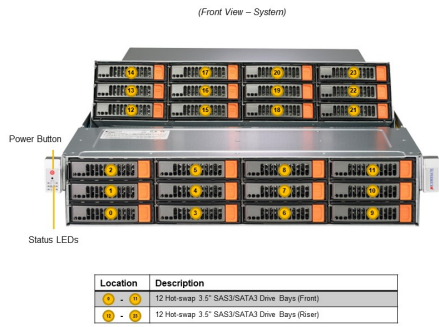
## Key Applications

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

## Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCIe 4.0 x16 Slots; Dedicated PCIe 4.0 AIOM slot;
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 24 3.5" Hot-swap SAS3/SATA3 drives, 4x Rear SATA/NVMe Slots, 2x SATA/NVMe M.2 (form factor: 2280);
- 5x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;

| | |
|---|---|
| Form Factor | 2U Rackmount<br>Enclosure: (17.2" x 3.5" x 34")<br>Package: (29" x 12" x 52") |
| Processor | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 38C/76T; Up to 57MB Cache per CPU<br>Supports 120W - 120W TDP CPUs (Air Cooled) |
| System Memory | Slot Count: 16 DIMM slots<br>Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM |
| Drive Bays | 24x 3.5" hot-swap SATA3/SAS3 drive bays (2x 2.5" hot-swap SATA3 rear drive bays)<br>2 M.2 NVMe OR 2 M.2 SATA3<br>M-Key, 2280 and 22110 |
| Expansion Slots | 1 PCIe 4.0 x8 LP slot(s)<br>2 PCIe 4.0 x16 LP slot(s)<br>1 PCIe 4.0 x16 AIOM slot(s) |
| On-Board Devices | Chipset: Intel® C621A<br>Network Connectivity: Via AIOM<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Input / Output | LAN: 1 RJ45 Dedicated IPMI LAN port<br>USB: 2 USB 3.0 port(s) (2 Rear_USB)<br>Video: 1 VGA port(s)<br>Serial Port: 1 COM Port(s) (1 rear)<br>DOM: 2 SuperDOM (Disk on Module) port |

*(Front View – System)*

Power Button

Status LEDs

| Location | Description |
|---|---|
| ⬤ - ⬤ | 12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Front) |
| ⬤ - ⬤ | 12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Riser) |

*(Rear View – System)*

Redundant 1600W Titanium Level Power Supplies

Serial Port
VGA Port
RJ45 IPMI Port
2 USB Ports

| Location | Description |
|---|---|
| N0 - R1 | Hot-swap 2.5" SATA3 Drive Bays |
| N0 - R1 | Hot-swap 2.5" NVMe Drive Bays (NVMe from CPU1) |

| Location | Description |
|---|---|
| X1 | PCIe 4.0 x16 (AIOM) |
| 1 | PCIe 4.0 x16 (Occupied by 3908 SAS controller) |
| 2  3 | PCIe 4.0 x16 |

CPU1 ▮ CPU2 ▮

| | |
|---|---|
| **System Cooling** | Fans: 5 Heavy Duty 8cm Fan(s) |
| **Power Supply** | 1600W Redundant Titanium Level power supplies |
| **System BIOS** | BIOS Type: AMI 128MB 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<br>　　4+1 Phase-switching voltage regulator<br>FAN: Fans with tachometer monitoring<br>　　Status monitor for speed control<br>　　Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>　　　　Thermal Control for fan connectors |
| **Dimensions and Weight** | Height: 3.5"<br>Width: 17.2"<br>Depth: 34"<br>Gross Weight: 74.5 lbs (33.79 kg)<br>Net Weight: 52 lbs (23.59 kg)<br>Packaging: 12" x 29" x 52"<br>Available Color: Silver |
| **Operating Environment** | ROHS: RoHS Compliant<br>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |
| **Motherboard** | [Super X12DSC-A6](#) |
| **Chassis** | CSE-826STS-R1K62P1 |