

# UP Storage SuperServer SSG-540P-E1CTR45H

4U UP top-loading storage server with 45 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) and PCIe 4.0.



More details here

## Key Applications

Database Applications, Backup Storage, Cold Storage, Data Warehousing, Archiving,

## Key Features

- 8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® Intel® DCPMM;
- 2 PCIe 4.0 x16 (LP) slots, 2 PCIe 4.0 x8 (LP) slots;
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 45x Top-loading hot-swap 3.5" SAS3/SATA3 drive bays, 2x Hot-swap 2.5" SATA drive bays (rear), Onboard 1x NVMe/SATA M.2; 2x Hot-swap 2.5" SATA3/NVMe (rear, optional);
- Redundant Platinum 1600W Power Supply;



Form Factor	4U Rackmount Enclosure: 437 x 178 x 660mm (17.2" x 7" x 26") Package: 711 x 559 x 1067mm (28" x 22" x 42")
Processor	Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	<p>Default: Total 47 bays</p> <ul style="list-style-type: none"> <li>• 45 top-loading hot-swap 3.5" SAS/SATA drive bays</li> <li>• 2 rear hot-swap 2.5" SATA drive bays</li> </ul> <p>Option A: Total 49 bays</p> <ul style="list-style-type: none"> <li>• 2 rear hot-swap 2.5" SATA drive bays</li> <li>• 2 rear hot-swap 2.5" PCIe 4.0 NVMe*/SAS*/SATA* drive bays</li> <li>• 45 top-loading hot-swap 3.5" SAS/SATA drive bays</li> </ul> <p>(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280/22110)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> <li>• 2 PCIe 4.0 x8 LP slots</li> <li>• 2 PCIe 4.0 x16 LP slots</li> </ul>
On-Board Devices	<p>SATA: SATA (6Gbps) via Intel® C621A; RAID 0/1/5/10 support</p> <p>SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50/60 support</p> <p>NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required)</p> <p>Chipset: Intel® C621A</p> <p>Network Connectivity: 2 RJ45 10GbE with Intel® X550</p>
Input / Output	<p>LAN: 2 RJ45 10 GbE LAN ports (Intel® X550)</p> <p>1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)</p> <p>USB: 2 USB 2.0 ports(header)</p> <p>2 USB 3.2 Gen1 Type-A ports(rear)</p> <p>2 USB 2.0 Type-A ports(rear)</p> <p>2 USB 3.2 Gen1 ports(Header)</p> <p>1 USB 3.2 Gen1 Type-A port</p> <p>Video: 1 VGA port</p>

Serial: 1 COM port(Header)  
TPM: 1 TPM header

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System Cooling	Fans: Up to 5 Heavy Duty PWM 80x80x38mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 1600W Redundant (1 + 1) Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 32MB 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: 7+1 Phase-switching voltage regulator module (VRM) 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: 120 lbs (54.43 kg) Net Weight: 85 lbs (38.56 kg) Available Color: Black
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	<a href="#">Super X12SPI-TF</a>
Chassis	<a href="#">CSE-946L TS-R1K66P1</a>