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;

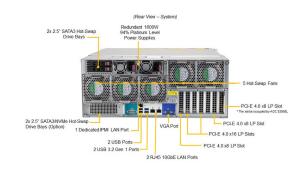| Form Factor	4U Rackmount Enclosure: 437 x 178 x 660mm (17.2" x 7" x 26") Package: 711 x 559 x 1067mm (28" x 22" x 42")
Processor	Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 47 bays • 45 top-loading hot-swap 3.5" SAS/SATA drive bays • 2 rear hot-swap 2.5" SATA drive bays Option A: Total 49 bays • 2 rear hot-swap 2.5" SATA drive bays • 2 rear hot-swap 2.5" PCIe 4.0 NVMe*/SAS*/SATA* drive bays • 45 top-loading hot-swap 3.5" SAS/SATA drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280/22110)
Expansion Slots	Default • 2 PCIe 4.0 x8 LP slots • 2 PCIe 4.0 x16 LP slots
On-Board Devices	SATA: SATA (6Gbps) via Intel® C621A; RAID 0/1/5/10 support SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50/60 support NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GbE with Intel® X550

Input / Output	LAN: 2 RJ45 10 GbE LAN ports (Intel® X550)
	     1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)
	USB: 2 USB 2.0 ports(header)
	     2 USB 3.2 Gen1 Type-A ports(rear)
	     2 USB 2.0 Type-A ports(rear)
	     2 USB 3.2 Gen1 ports(Header)
	     1 USB 3.2 Gen1 Type-A port
	Video: 1 VGA port

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

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

(Front View – System)

(Rear View – System)

Rail Release
Level/Latch
(Tool-Less)

Power Button
Reset Button

Information & Power Fail LEDs
LAN1 & LAN 2 LEDs
Device & Power Status LEDs

2x 2.5" SATA3 Hot-Swap
Drive Bays

Redundant 1600W
94% Platinum Level
Power Supplies

5 Hot-Swap Fans

PCI-E 4.0 x8 LP Slot
* The slot is occupied by AOC S3908L

2x 2.5" SATA3/NVMe Hot-Swap
Drive Bays (Option)

1 Dedicated IPMI LAN Port

VGA Port

2 USB Ports
2 USB 3.2 Gen 1 Ports

2 RJ45 10GbE LAN Ports

PCI-E 4.0 x8 LP Slot

PCI-E 4.0 x16 LP Slots

PCI-E 4.0 x8 LP Slot

System Cooling	Fans: 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: Monitors for CPU Cores, Chipset Voltages, Memory
	     7+1 Phase-switching voltage regulator module (VRM)
	 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: 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	**Super X12SPI-TF**
Chassis	**CSE-946LTS-R1K66P1**