UP Storage SuperServer SSG-540P-E1CTR45L

4U UP top-loading storage server with 45 hot-swap 3.5" SAS/SATA bays and PCIe 4.0
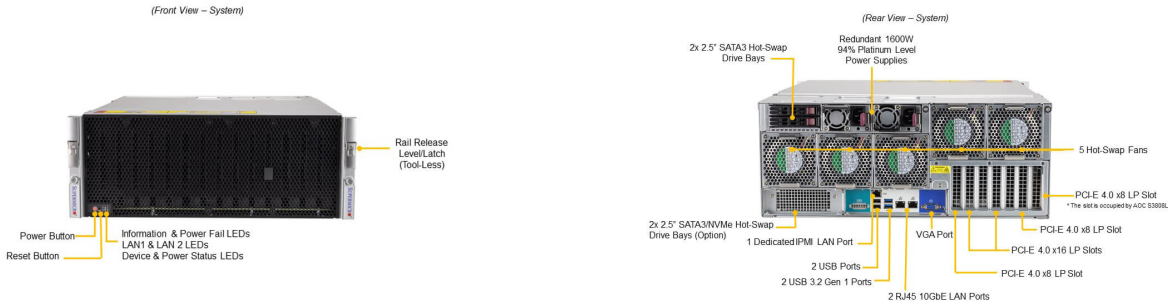
Key Applications

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

Key Features

- Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors. Up to 270W TDP.;
- 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 Max Memory (2DPC): 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
Expansion Slots	Default • 2 PCIe 4.0 x8 LP slots • 2 PCIe 4.0 x16 LP slots
On-Board Devices	SATA: SATA (6Gbps) SAS: SAS (12Gbps) ; (IT mode) NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550

Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
	     2 RJ45 10 GbE LAN ports (Intel® X550)
	USB: 2 USB 2.0 ports(header)
	     2 USB 2.0 ports(rear)
	     1 Type-A port
	     2 ports(header)
	     2 ports(rear)
	Video: 1 VGA port
	DOM: 2 SuperDOM (Disk on Module) portswith built-in power

(Front View – System)

(Rear View – System)

System Cooling	Fans: Up to 5 Heavy Duty PWM 80x80x38mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 1600W Redundant Platinum Level (94%) power supply
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**