

UP Storage SuperServer SSG-540P-E1CTR36L



Key Applications

Enterprise Server
 Database Processing & Storage
 Appliance Optimized Storage

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® DCPMM;
- 2 PCI-E 4.0 x16 (LP) slots, 2 PCI-E 4.0 x8 (LP) slots;
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 36x Hot-swap 3.5" SAS3/SATA3 drive bays (24 front + 12 rear), Onboard 1x NVMe/SATA M.2; 2x Hot-swap 2.5" NVMe/SATA (rear, optional); 2x Internal fixed bay support up to 4x 2.5" drive bays (optional);
- Redundant Titanium 1200W Power Supply;

[More details here](#)



Form Factor	4U Rackmount Enclosure: 437 x 178 x 699mm (17.2" x 7" x 27.5") Package: 656 x 445 x 1003mm (27" x 17.5" x 39.5")
Processor	Support Intel® 3rd Gen Xeon® Scalable Processors Single Socket LGA 4189 (Socket P+) supported TDP up to 270W;
System Memory	8 DIMM slots ECC RDIMM, DDR4-3200MHz ECC LRDIMM, DDR4-3200MHz Intel® DCPMM, DDR4-3200MHz
Drive Bays	36x 3.5" hot-swap SATA/SAS drive bays;
Expansion Slots	Slot 2: PCI-E 4.0 x8 LP Slot 4: PCI-E 4.0 x16 LP Slot 6: PCI-E 4.0 x16 LP Slot 7: PCI-E 4.0 x8 LP
On-Board Devices	SATA: SATA3 (6Gbps) via C621A Chipset; RAID 0, 1, 5, 10 support SAS: SAS3 (12Gbps) via Broadcom 3808 (IT mode) Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with Intel® X550 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated IPMI LAN port 2 RJ45 10GBase-T LAN ports USB: 4 USB 2.0 port(s) (2 rear; 2 headers) 5 USB 3.2 Gen 1 port(s) (2 rear; 2 headers; 1 Type A) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 header) DOM: 2 SuperDOM (Disk on Module) port with built-in power



Cooling System	7x (8cm x 8cm x 3.8cm) heavy duty fan(s)
Power Supply	AC 1200W, Titanium Level, Redundancy,PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH Dimension (W x H x L): 76 x 40 x 336 mm Output Type: Gold Finger
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; Redfish API; IPMI2.0
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	Height: 7" (178 mm) Width: 17.2" (437 mm) Depth: 27.5" (699 mm) Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 66.5 lbs (29.7 kg) Packaging: 17.5" (H) x 27" (W) x 39.5" (D) Available Color: Black
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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-847BTS-R1K23LPBP4

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12SPI-TF	1	Super X12SPI-TF Motherboard
	CSE-847BTS-R1K23LPBP4	1	4U Chassis
Add-on Card / Module	AOC-S3808L-L8IT-P	1	8 int 12Gb/s SAS3 ports, x8 Gen4, HBA - LP, 122 HDD w/ exp,RoHS
Add-on Card / Module	AOM-SAS3-8I8E-LP	1	8-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket,HF,RoHS/REACH
Backplane	BPN-SAS3-826EL1-N4	1	12-Port 2U Backplane with Expander support up to 8 x 3.5" SAS3/SATA3 HDD/SDD and 4 x SAS3/SATA3/NVMe Storage Devices ,HF,RoHS/REACH
Backplane	BPN-SAS3-846EL1	1	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0296L	4	9" 4 PIN FAN PWS EXTENSION CORD, PBF
Cable 2	CBL-CDAT-0728	1	4 Pin to 4 Pin I2C Cable, 65cm, 26AWG, 4 Wires, Pinout 1-1
Cable 3	CBL-SAST-0531	4	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s
Cable 4	CBL-SAST-0531-01	4	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s [FCI]
Cable 5	CBL-SAST-1264-100	1	Slimline x8 (STR) to 2x MiniSAS HD x4,65CM,100 OHM,RoHS
Parts	MCP-260-00042-1N	1	Standard I/O Shield for X12SPi with EMI Gasket
Manual	MNL-2360-QRG	1	540P-E1CTR36L/H Quick Reference Guide
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0078P	1	2U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms
*Power Supply	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH
*Power Distributor	PDB-PT847-8824	1	24pin standard output with 5V high current 100Amp power distributor board for SC847
*Cable 6	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
*Cable 7	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
*Cable 8	CBL-PWEX-1079	7	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,37CM,22AWG,5A/pin,RoHS
*FAN 1	FAN-0166L4	7	80x80x38 mm, 13.5K RPM, Optional Middle Cooling Fan for 2U Ultra Series Servers (Hot-swappable Version of FAN-0162L4)
*Front Panel	FPB-TB826-T	1	Chassis transfer board for SC826
*Drive Tray(s)	MCP-220-00075-0B	36	Black gen 5.5 hot-swap 3.5" HDD tray
*Drive Tray(s)	MCP-220-84708-ASM	1	SC847B LP MB Tray assembly,HF,RoHS/REACH
*Rail Set	MCP-290-00057-0N	1 set	Rail set, quick/quick, default for 4U 17.2" W
*Air Shroud	MCP-310-49004-0N	1	SC847/417 DP X9 universal PC air shroud 1368x13/12x13MB
*Rail Set	MCP-410-00007-0N	1	Rail screw bag

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

	Part Number	Qty	Description
2x 2.5" NVMe Cage (Rear)	MCP-220-82619-0N + 1x CBL-SAST-1264-85	1	Rear hot-swap 2x 2.5" NVMe drive kit
2x 2.5" SATA/SAS Cage (Rear)	<u>MCP-220-82616-0N</u> *eStore	1	Rear hot-swap 2x 2.5" SATA/SAS drive kit
3.5" to 2.5" Converter Tray(s)	MCP-220-00043-0N *eStore	-	Hot-swap Gen-4 3.5" to 2.5" HDD tray, Black
Intel VROC RAID Key for NVMe	<u>AOC-VROCIINTMOD</u>	1	Intel SSD Only Upgrade module; RAID 0/1/10/5
	<u>AOC-VROCPREMOD</u>	1	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5
	<u>AOC-VROCSTNMOD</u>	1	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
TPM	AOM-TPM-9671V-S-O	1	TPM 1.2, vertical form factor, provisioned for server
	AOM-TPM-9670V-S-O	1	TPM 2.0, vertical form factor, provisioned for server