

Storage SuperServer SSG-540P-E1CTR60L (Complete System Only)

COMING SOON



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® DCPMM

2 PCI-E 4.0 x16 (LP) slots, 2 PCI-E 4.0 x8 (LP) slots

Intel® Ethernet Controller X550 2x 10GbE RJ45

60x Top-loading hot-swap 3.5" or 2.5" 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)

5 Hot-Swap 8cm redundant PWM fans

Redundant Titanium 1600W Power Supply

Product SKUs

SSG-540P-E1CTR60L	<ul style="list-style-type: none"> SuperServer SSG-540P-E1CTR60L (Black)
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Motherboard

Super X12SPI-TF

Processor

CPU	<ul style="list-style-type: none"> Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Support CPU TDP 270W
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Cores	<ul style="list-style-type: none"> Up to 38C/76T; Up to 57MB Cache
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System Memory

Memory	<ul style="list-style-type: none"> Memory Capacity: 8 DIMM slots Up to 2TB: 8x 256 GB DRAM Up to 3TB: 4x 256 GB DRAM and 4x 512 GB PMem Memory Type: 3200MHz ECC DDR4 RDIMM;LRDIMM Intel® Optane™ persistent memory 200 series
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Memory Voltage	<ul style="list-style-type: none"> 1.2 V
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Error Detection	<ul style="list-style-type: none"> ECC
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On-Board Devices

SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via C621A Chipset; RAID 0, 1, 5, 10 support
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SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3816 (IT mode)
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Chipset	<ul style="list-style-type: none"> Intel® C621A
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Network Connectivity	<ul style="list-style-type: none"> 2x 10GbE BaseT with Intel® X550
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IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
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Input / Output

LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port 2 RJ-45 10Gbase-T ports
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USB	<ul style="list-style-type: none"> 4 USB 3.0 port(s) (4 Rear_USB)
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Video	<ul style="list-style-type: none"> 1 VGA port(s)
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Serial Port	<ul style="list-style-type: none"> 1 COM Port(s) (1 rear)
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DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) port
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System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI 32MB SPI Flash EEPROM
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Management

Software	<ul style="list-style-type: none"> IPMI 2.0 SUM NMI Watch Dog SuperDoctor® 5
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Power Configurations	<ul style="list-style-type: none"> ACPI Power Management Power-on mode for AC power recovery
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> 4+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory
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FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control
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Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors
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Chassis

Form Factor	<ul style="list-style-type: none"> 4U Rackmount
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Model	<ul style="list-style-type: none"> CSV-946STS-R1K6LPP
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Dimensions and Weight

Height	<ul style="list-style-type: none"> 7"
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Width	<ul style="list-style-type: none"> 17.2"
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Depth	<ul style="list-style-type: none"> 30.2" (767mm)
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Package	<ul style="list-style-type: none"> 33.25" (H) x 28" (W) x 42.5" (D)
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Weight	<ul style="list-style-type: none"> Net Weight: 117 lbs (53 kg) Gross Weight: 169.5 lbs (76.9 kg)
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Available Color	<ul style="list-style-type: none"> Black
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Front Panel

Buttons	<ul style="list-style-type: none"> Power On/Off
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LEDs	<ul style="list-style-type: none"> HDD activity Network activity Power status System information (overheat/UID)
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Expansion Slots

PCI-Express (PCI-E)	<ul style="list-style-type: none"> Slot 1: PCI-E 4.0 x8 LP 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
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Drive Bays / Storage

Hot-swap	<ul style="list-style-type: none"> 60x 3.5" hot-swap SATA3/SAS3 drive bays
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M.2	<ul style="list-style-type: none"> 1x PCI-E 3.0 x4 and SATA
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System Cooling

Fans	<ul style="list-style-type: none"> 5 Heavy Duty 8cm Fan(s)
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Power Supply

1600W Redundant Power Supplies with PMBus

Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
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AC Input	<ul style="list-style-type: none"> 1000W: 100-127Vac / 12A-9A / 50-60Hz 1600W: 200-240Vac / 9A-7.5A / 50-60Hz
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+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-220Vac)
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12V SB	<ul style="list-style-type: none"> Max: 3.5A / Min: 0A
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Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
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Certification	 Titanium Level
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[[Test Report](#)]

Operating Environment

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
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Optional Parts List

	Part Number	Qty	Description
2x 2.5" NVMe Cage (Rear)	MCP-220-82620-0N +CBL-1231-85 + CBL-PWEX-1276 + CBL-0303L (female to female)	1	Rear hot-swap 2x 2.5" NVMe drive kit
2x 2.5" SATA/SAS Cage (Rear)	MCP-220-82616-0N •eStore+ 1x CBL-SAST-0699 •eStore + 1x CBL-0234L •eStore	1	Rear hot-swap 2x 2.5" SATA/SAS drive kit
Intel VROC RAID Key for NVMe	<u>AOC-VROCSTNMOD</u>	1	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
	<u>AOC-VROCINTMOD</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
Network Cards	More	-	AOC Compatibility Matrix (Select Storage & X12)
	AOC-SGP-I2	-	Standard LP 2-port GbE, Intel 82575
	AOC-S40G-I2Q	-	Standard LP 2-port 40GbE controller, Intel Fortville XL710
	AOC-S25G-M2S	-	Standard LP, 2x 25GbE SFP28, Mellanox ConnectX-4 LX EN
Power Cord	CBL-PWCD-0579-1	-	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V
	CBL-PWCD-0300-IS	-	PWCD,US,IEC60320 C14 TO C13,6FT,18AWG,RoHS/REACH
	CBL-PWCD-0579	-	Power Cord Type IEC (C14 to C13) 6 ft (14AWG), 15A, 250V
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
TPM Module	AOM-TPM-9671V	-	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
	AOM-TPM-9670V	-	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor