

COMING SOON

## Storage SuperServer SSG-540P-E1CTR60H (Complete System Only )



### 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-E1CTR60H	<ul style="list-style-type: none"><li>SuperServer SSG-540P-E1CTR60H (Black)</li></ul>
Motherboard	
Super X12SPI-TF	
Processor	
CPU	<ul style="list-style-type: none"><li>Single Socket P+ (LGA-4189)</li><li>3rd Gen Intel® Xeon® Scalable processors</li><li>Support CPU TDP 270W</li></ul>
Cores	<ul style="list-style-type: none"><li>Up to 38C/76T; Up to 57MB Cache</li></ul>
System Memory	
Memory	<ul style="list-style-type: none"><li>Memory Capacity: 8 DIMM slots</li><li>Up to 2TB: 8x 256 GB DRAM</li><li>Up to 3TB: 4x 256 GB DRAM and 4x 512 GB PMem</li><li>Memory Type: 3200MHz ECC DDR4 RDIMM;LRDIMM</li><li>Intel® Optane™ persistent memory 200 series</li></ul>
Memory Voltage	<ul style="list-style-type: none"><li>1.2 V</li></ul>
Error Detection	<ul style="list-style-type: none"><li>ECC</li></ul>
On-Board Devices	
SATA	<ul style="list-style-type: none"><li>SATA3 (6Gbps) via C621A Chipset; RAID 0, 1, 5, 10 support</li></ul>
SAS	<ul style="list-style-type: none"><li>SAS3 (12Gbps) via Broadcom 3916; RAID 0, 1, 5, 6, 10, 50, 60 support</li></ul>
Chipset	<ul style="list-style-type: none"><li>Intel® C621A</li></ul>
Network Connectivity	<ul style="list-style-type: none"><li>2x 10GbE BaseT with Intel® X550</li></ul>
IPMI	<ul style="list-style-type: none"><li>Support for Intelligent Platform Management Interface v.2.0</li><li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li></ul>
Input / Output	
LAN	<ul style="list-style-type: none"><li>1 RJ45 Dedicated IPMI LAN port</li><li>2 RJ-45 10Gbase-T ports</li></ul>
USB	<ul style="list-style-type: none"><li>4 USB 3.0 port(s) (4 Rear_USB)</li></ul>
Video	<ul style="list-style-type: none"><li>1 VGA port(s)</li></ul>
Serial Port	<ul style="list-style-type: none"><li>1 COM Port(s) (1 rear)</li></ul>
DOM	<ul style="list-style-type: none"><li>2 SuperDOM (Disk on Module) port</li></ul>
System BIOS	
BIOS Type	<ul style="list-style-type: none"><li>AMI 32MB SPI Flash EEPROM</li></ul>
Management	
Software	<ul style="list-style-type: none"><li>IPMI 2.0</li><li>SUM</li><li>NMI</li><li>Watch Dog</li><li>SuperDoctor® 5</li></ul>
Power Configurations	<ul style="list-style-type: none"><li>ACPI Power Management</li><li>Power-on mode for AC power recovery</li></ul>
PC Health Monitoring	
CPU	<ul style="list-style-type: none"><li>4+1 Phase-switching voltage regulator</li><li>Monitors for CPU Cores, Chipset Voltages, Memory</li></ul>
FAN	<ul style="list-style-type: none"><li>Fans with tachometer monitoring</li><li>Pulse Width Modulated (PWM) fan connectors</li><li>Status monitor for speed control</li></ul>
Temperature	<ul style="list-style-type: none"><li>Monitoring for CPU and chassis environment</li><li>Thermal Control for fan connectors</li></ul>

Chassis	
Form Factor	<ul style="list-style-type: none"><li>4U Rackmount</li></ul>
Model	<ul style="list-style-type: none"><li>CSV-946STS-R1K6LPP</li></ul>
Dimensions and Weight	
Height	<ul style="list-style-type: none"><li>7"</li></ul>
Width	<ul style="list-style-type: none"><li>17.2"</li></ul>
Depth	<ul style="list-style-type: none"><li>30.2" (767mm)</li></ul>
Package	<ul style="list-style-type: none"><li>33.25" (H) x 28" (W) x 42.5" (D)</li></ul>
Weight	<ul style="list-style-type: none"><li>Net Weight: 117 lbs (53 kg)</li><li>Gross Weight: 169.5 lbs (76.9 kg)</li></ul>
Available Color	<ul style="list-style-type: none"><li>Black</li></ul>
Front Panel	
Buttons	<ul style="list-style-type: none"><li>Power On/Off</li></ul>
LEDs	<ul style="list-style-type: none"><li>HDD activity</li><li>Network activity</li><li>Power status</li><li>System information (overheat/UID)</li></ul>
Expansion Slots	
PCI-Express (PCI-E)	<ul style="list-style-type: none"><li>Slot 1: PCI-E 4.0 x8 LP</li><li>Slot 2: PCI-E 4.0 x8 LP</li><li>Slot 4: PCI-E 4.0 x16 LP</li><li>Slot 6: PCI-E 4.0 x16 LP</li><li>Slot 7: PCI-E 4.0 x8 LP</li></ul>
Drive Bays / Storage	
Hot-swap	<ul style="list-style-type: none"><li>60x 3.5" hot-swap SATA3/SAS3 drive bays</li></ul>
M.2	<ul style="list-style-type: none"><li>1x PCI-E 3.0 x4 and SATA</li></ul>
System Cooling	
Fans	<ul style="list-style-type: none"><li>5 Heavy Duty 8cm Fan(s)</li></ul>
Power Supply	
1600W Redundant Power Supplies with PMBus	
Dimension (W x H x L)	<ul style="list-style-type: none"><li>73.5 x 40 x 265 mm</li></ul>
AC Input	<ul style="list-style-type: none"><li>1000W: 100-127Vac / 12A-9A / 50-60Hz</li><li>1600W: 200-240Vac / 9A-7.5A / 50-60Hz</li></ul>
+12V	<ul style="list-style-type: none"><li>Max: 83.3A / Min: 0A (100Vac-127Vac)</li><li>Max: 133.3A / Min: 0A (200Vac-220Vac)</li></ul>
12V SB	<ul style="list-style-type: none"><li>Max: 3.5A / Min: 0A</li></ul>
Output Type	<ul style="list-style-type: none"><li>25 Pairs Gold Finger Connector</li></ul>
Certification	<div><div></div><div>Titanium Level</div><div>[ <a href="#">Test Report</a> ]</div></div>
Operating Environment	
RoHS	<ul style="list-style-type: none"><li>RoHS Compliant</li></ul>
Environmental Spec.	<ul style="list-style-type: none"><li>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li><li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li><li>Operating Relative Humidity: 8% to 90% (Non-Condensing)</li><li>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)</li></ul>

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)	<del>MCP-220-82616-0N</del> •eStore+ 1x CBL-SAST-0699 •eStore + 1x CBL-0234L •eStore	1	Rear hot-swap 2x 2.5" SATA/SAS drive kit
CacheVault	BTR-CVPM05 & BKT-BBU-BRACKET-05 (For S3908)	1	CacheVault for Broadcom 3908 with SuperCap mounting bracket for PCI-E location
Intel VROC RAID Key for NVMe	<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
	<u>AOC-VROCINTMOD</u>	1	Intel SSD Only Upgrade module; 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-9670V	-	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
	AOM-TPM-9671V	-	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor