

SuperStorage 6049P-E1CR45L (Complete System Only)



Key Features

- Corporate Database
- Database Processing & Storage
- Enterprise Server
- HPC, Data Center
- iSCSI SAN

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 24 DIMM slots
3. 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
4. 45 Hot-swap 3.5" SAS3/SATA3 drive bays with SES3; 2 rear Hot-swap 2.5" drive bays; optional 6 NVMe bays
5. Broadcom 3008 SAS3, IT mode
6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
7. 5 Hot-swap 8cm rear exhaust PWM fans
8. 1600W Redundant Power Supplies Platinum Level (94%)

Due to the complexity of integration, this product is sold as a completely assembled system only (with minimum 2 CPU, 2 DIMM, 24 HDDs and 1 NIC or SIOM card).

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ OS Certification Matrix](#)
[▶ Drive Options](#)

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

SSG-6049P-E1CR45L ■ SuperServer 6049P-E1CR45L (Black)

Motherboard

Super X11DSC+

Processor/Cache

CPU ■ Dual Socket P (LGA 3647)
 ■ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
 ■ Support CPU TDP 70-205W

Cores ■ Up to 28 Cores with Intel® HT Technology

System Memory

Memory ■ 24 DIMM slots

Chassis

Form Factor ■ 4U Rackmount
 Model ■ CSE-946LTS-R1K66P1



Dimensions

Width ■ 17.2" (437mm)
 Height ■ 7" (178mm)
 Depth ■ 26" (660mm)
 Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button
 ■ Power status LED
 ■ Hard drive activity LED

Capacity	<ul style="list-style-type: none"> Up to 3TB ECC 3DS LRDIMM, 512GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3008 AOC; IT Mode
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
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
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 8 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 1 Type A
VGA	<ul style="list-style-type: none"> 1 VGA D-Sub connector port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 NMI SSM, SPM, SUM SuperDoctor® 5 Watchdog
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

LEDs	<ul style="list-style-type: none"> Network activity LEDs System Overheat LED Power fail LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 3 PCI-E 3.0 x8 for Add-On-Module (AOM)
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 45 Hot-swap 3.5" SAS3/SATA3 drive bays 2 Rear Hot-swap 2.5" SATA drive bays
Optional	<ul style="list-style-type: none"> 6 NVMe bays (optional)
Backplane	
SAS3/SATA3 single expander per backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> 5 Hot-swap 8cm rear exhaust PWM fans
Power Supply	
1600W 1U Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1600W
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 12.9A Max / 50-60Hz 200-240Vac / 9.5A Max / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 82A / Min: 0.1A (100-127Vac) Max: 132A / Min: 0.1A (200-240Vac)
12V SB	<ul style="list-style-type: none"> Max: 2A / Min: 0.2A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
Certification	  Platinum Level [Test Report]
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
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)
Compliance	
FCC, CE, RCM, VCCI, UL and CB	

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DSC+	1	Super X11DSC+ Motherboard
	CSE-946LTS-R1K66P1	1	4U Chassis
Add-on Card / Module	AOM-S3008M-L8-P	1	Mezz card with LSI 3008 controller
Backplane	BPN-SAS3-826TQ-B2B	1	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD
Backplane	BPN-SAS3-946LEL1	1	45-port 4U SC946L Top-load SAS3 12Gbps expander backplane, support up to 45x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0481L	2	SATA,INT,ROUND,ST-ST,81CM,30AWG
Cable 2	CBL-CDAT-0728	1	4 Pin to 4 Pin I2C cable, 65cm, 26AWG, 4 wires, pinout 1-1, for vpp header(jnvi2c1),RoHS/REACH
Cable 3	CBL-PWCD-0578	2	Power Cord Type IEC (C14 to C13) 3 ft (14AWG), 15A, 250V,HF,RoHS/REACH,PBF
Cable 4	CBL-PWEX-0862	1	Powerlug to 5.7 Radsok, black 12AWG, 53cm for SC946S
Cable 5	CBL-PWEX-0863	1	Powerlug to 5.7 Radsok, yel 12AWG, 32cm for SC946S
Cable 6	CBL-PWEX-1024	1	Powerlug to 5.7 Radsok, black 12AWG, 45cm,RoHS
Cable 7	CBL-SAST-1006-1	2	SLIMLINE SAS3, INT, 50CM 32AWG,RoHS
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K66P-1R	2	1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF
FAN 1	FAN-0184L4	5	80x80x38 mm, 14.4K RPM, Rear Exhaust Fan for SC946S Chassis (60-bay)
Rear Window	MCP-240-94601-0N	-	SC946S rear window w/ 3x LP slots for X10DSC+
Rear Window	MCP-290-00132-0N	-	SIOM dummy cover for 226S/826S/946S

Optional Parts List

	Part Number	Qty	Description
3108 Cache Protection	BTR-CV3108-U1	-	Broadcom 3108 CacheVault kit (ROHS, Reach)
6 NVMe Bays	AOC-SLG3-2E4R	1	NVMe AOC
	MCP-220-94607-0N	1	SC946S NVMe kits w/ cage, tray, cable, BPN (no NVMe cable)OCuLink v.91,INT,PCIe NVMe SSD, 55CM,34AWG
	CBL-SAST-0818	4	OCuLink to MiniSAS HD V.91, INT, PCIe NVMe SSD, 37CM, 15D15F7D, 34AWG
	CBL-SAST-0850	2	
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
SIOM Network Card(s)	AOC-MGP-I2	-	SIOM 2-port GbE, Intel i350-AM2
	AOC-MGP-I4	-	SIOM 4-port GbE, Intel i350-AM4
	AOC-MTG-I2T	-	SIOM 2-port 10GBase-T, Intel X550
	AOC-MTG-I4T	-	SIOM 4-port 10GBase-T, Intel X550
	AOC-MTGN-I2S	-	SIOM 2-port 10G SFP+, Intel 82599ES
	AOC-MTG-I4S	-	SIOM 4-port 10G SFP+, Intel XL710