

SuperStorage 6049P-E1CR60H (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. 60 Hot-swap 3.5" SAS3/SATA3 drive bays with SES3; 2 rear Hot-swap 2.5" drive bays
5. Broadcom 3108 SAS3, HW RAID
6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
7. 5 Hot-swap 8cm rear exhaust PWM fans
8. 2000W Redundant Power Supplies Titanium Level (96%)

Due to the complexity of integration, this product is sold as a completely assembled system only (with minimum 2 CPU, 2 DIMM, 30 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-E1CR60H ■ SuperServer 6049P-E1CR60H (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-946STS-R2K05P

Dimensions

Width ■ 17.2" (437mm)
 Height ■ 7" (178mm)
 Depth ■ 30.2" (767mm)

Weight ■ Gross Weight:
 ■ Net Weight:

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

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 3108; HW RAID RAID 0, 1, 5, 6, 10, 50, 60
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"> Power status LED Hard drive activity LED Network activity LEDs System Overheat LED Power fail LED
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Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 1 PCI-E 3.0 x8

Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 60 Hot-swap 3.5" SAS3/SATA3 drive bays 2 Rear Hot-swap 2.5" SATA drive bays

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	
2000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1800W/1980W/2000W
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"> 100-120Vac / 12.5-9.5A / 50-60Hz 200-220Vac / 10-9.5A / 50-60Hz 220-230Vac / 10-9.8A / 50-60Hz 230-240Vac / 10-9.8A / 50-60Hz 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)
+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100-120Vac) Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac) Max: 166.7A / Min: 0A (230-240Vac) Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector

Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]
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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)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DSC+	1	Super X11DSC+ Motherboard
	CSE-946STS-R2K05P	1	4U Chassis
Add-on Card / Module	AOM-S3108M-H8L-P	1	sas3 roc mez for X10dsc
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-SAS3-946SEL1	2	30-port 4U 946S Top-load SAS3 12Gbps single-expander midplane, support up to 30x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0481L	2	SATA,INT,ROUND,ST-ST,81CM,30AWG
Cable 2	CBL-CDAT-0728	2	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-0861	1	Powerlug to 5.7 Radsok, black 12AWG, 32cm for SC946S
Cable 5	CBL-PWEX-0862	1	Powerlug to 5.7 Radsok, black 12AWG, 53cm for SC946S
Cable 6	CBL-PWEX-0863	1	Powerlug to 5.7 Radsok, yel 12AWG, 32cm for SC946S
Cable 7	CBL-PWEX-0864	1	Powerlug to 5.7 Radsok, yel 12AWG, 53cm for SC946S
Cable 8	CBL-SAST-0833	2	SLIMLINE SAS, INT, 55MM, 32AWG
Cable 9	CBL-SAST-0855	2	SLIMLINE SAS, INT, 60CM, 15D-30F-15D, 32AWG
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
FAN 1	FAN-0184L4	5	80x80x38 mm, 14.4K RPM, Rear Exhaust Fan for SC946S Chassis (60-bay)
Power Supply	PWS-2K05A-1R	2	1U 2000W Redundant Titanium Power Supply W/PMbus 73.5x40x265mm,RoHS/REACH
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	OCuLink to MiniSAS HD V.91, INT, PCIe NVMe SSD, 37CM, 15D15F7D, 34AWG
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