

# SuperStorage 6049P-E1CR60L (Complete System Only)



### Key Features

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

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).

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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 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. 2000W Redundant Power Supplies Titanium Level (96%)

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-E1CR60L	▪ SuperServer 6049P-E1CR60L (Black)
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#### Motherboard

Super X11DSC+
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#### Processor/Cache

CPU	▪ Dual Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ▪ Support CPU TDP 70-205W
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Cores	▪ Up to 28 Cores with Intel® HT Technology
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#### System Memory

Memory	▪ 24 DIMM slots
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#### 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:
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Available Colors	▪ Black
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#### Front Panel

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

LEDs	<ul style="list-style-type: none"> <li>Power status LED</li> <li>Hard drive activity LED</li> <li>Network activity LEDs</li> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16</li> <li>1 PCI-E 3.0 x8</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>60 Hot-swap 3.5" SAS3/SATA3 drive bays</li> <li>2 Rear Hot-swap 2.5" SATA drive bays</li> </ul>
<b>Backplane</b>	
SAS3/SATA3 single expander per backplane	
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>5 Hot-swap 8cm rear exhaust PWM fans</li> </ul>
<b>Power Supply</b>	
2000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>1000W/1800W/1980W/2000W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>73.5 x 40 x 265 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>100-120Vac / 12.5-9.5A / 50-60Hz</li> <li>200-220Vac / 10-9.5A / 50-60Hz</li> <li>220-230Vac / 10-9.8A / 50-60Hz</li> <li>230-240Vac / 10-9.8A / 50-60Hz</li> <li>200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 83.3A / Min: 0A (100-120Vac)</li> <li>Max: 150A / Min: 0A (200-220Vac)</li> <li>Max: 165A / Min: 0A (220-230Vac)</li> <li>Max: 166.7A / Min: 0A (230-240Vac)</li> <li>Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)</li> </ul>
12Vsb	<ul style="list-style-type: none"> <li>Max: 2.1A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>25 Pairs Gold Finger Connector</li> </ul>
Certification	  <ul style="list-style-type: none"> <li>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ Test Report ]</li> </ul>
<b>Operating Environment</b>	
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>

### 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-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-SAS3-946SEL1	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-CDAT-0728	2	4 Pin to 4 Pin I2C cable, 65cm, 26AWG, 4 wires, pinout 1-1, for vpp header(jnvi2c1),RoHS/REACH
Cable 2	CBL-PWCD-0578	2	Power Cord Type IEC (C14 to C13) 3 ft (14AWG), 15A, 250V,HF,RoHS/REACH,PBF
Cable 3	CBL-PWEX-0861	1	Powerlug to 5.7 Radsok, black 12AWG, 32cm for SC946S
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-0864	1	Powerlug to 5.7 Radsok, yel 12AWG, 53cm for SC946S
Cable 7	CBL-SAST-0833	2	SLIMLINE SAS, INT, 55MM, 32AWG
Cable 8	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	
Global Services & Support	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	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)	<a href="#">AOC-MGP-I2</a>	-	SIOM 2-port GbE, Intel i350-AM2
	<a href="#">AOC-MGP-I4</a>	-	SIOM 4-port GbE, Intel i350-AM4
	<a href="#">AOC-MTG-I2T</a>	-	SIOM 2-port 10GBase-T, Intel X550
	<a href="#">AOC-MTG-I4T</a>	-	SIOM 4-port 10GBase-T, Intel X550
	<a href="#">AOC-MTGN-I2S</a>	-	SIOM 2-port 10G SFP+, Intel 82599ES
	<a href="#">AOC-MTG-I4S</a>	-	SIOM 4-port 10G SFP+, Intel XL710