

SuperStorage 5049P-E1CR45H (Complete System Only)



Due to the complexity of integration, this product is sold as a completely assembled system only (including 1 CPU, 1 DIMM, 20 HDDs). Please contact your Supermicro sales rep for special requirements.

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Key Features

- Backup Storage, Cold Storage
- Database Applications
- Data Warehousing, Archiving

1. Single socket P (LGA 3647) supports Intel® Xeon® Scalable Processors
2. Up to 1TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 8 DIMM slots
3. 2 PCI-E 3.0 x8 (in x16), 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8) 1 PCI-E 3.0 x8 (occupied by HBA)
4. 2 GbE LAN ports via Intel i210
5. 45 Hot-swap 3.5" SAS3/SATA3 drive bays, 2 rear Hot-swap 2.5" SATA drive bays; optional 2 SATA or NVMe
6. Broadcom 3108 SAS3, HW RAID (AOC-S3108L-H8IR-P)
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 5 Hot-swap 8cm redundant PWM fans
9. 1600W Redundant Power Supplies Platinum Level


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

Specifications

Product SKUs	
SSG-5049P-E1CR45H	▪ SuperServer 5049P-E1CR45H (Black)
Motherboard	
Super X11SPL-F	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP up to 165W
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 8 DIMM slots ▪ Up to 1TB ECC 3DS LRDIMM, 256GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM

Chassis	
Form Factor	▪ 4U Rackmount
Model	▪ CSE-946LTS-R1K66P1
Dimensions and Weight	
Width	▪ 17.2" (437mm)
Height	▪ 7" (178mm)
Depth	▪ 26" (660mm)
Weight	<ul style="list-style-type: none"> ▪ Gross Weight: ▪ Net Weight:
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power status LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED ▪ Power fail LED

On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via Intel® C621 controller RAID 0, 1, 5, 10 support
SAS	<ul style="list-style-type: none"> Broadcom 3108 SAS3, HW RAID (AOC-S3108L-H8IR-P)
Network Controllers	<ul style="list-style-type: none"> Dual 1GbE LAN ports with Intel® I210
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	
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear)
VGA	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2 COM Ports (1 rear, 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 KVM with dedicated LAN NMI SPM, SUM SuperDoctor® 5 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
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

Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x8 (in x16) 3 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8) 1 PCI-E 3.0 x4 (occupied by HBA card)
M.2	<ul style="list-style-type: none"> Interface: PCIe 3.0 x4 Form Factor: 2280, 22110
Drive Bays / Storage	
Hot-swap	<ul style="list-style-type: none"> 45 Hot-swap 3.5" SAS3/SATA3 drive bays 2 Rear Hot-swap 2.5" SATA3 drive bays
Optional	<ul style="list-style-type: none"> 2 Hot-swap 2.5" NVMe/SATA drive bays (rear)
Backplane	
SAS3 / SATA3 single expander per backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> 5 High-performance 80mm cooling 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	 <ul style="list-style-type: none"> 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)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SPL-F	1	Super X11SPL-F Motherboard
	CSE-946LTS-R1K66P1	1	4U Chassis
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-CDAT-0674	1	4 Pin to 4 Pin I2C cable, 30cm, 26AWG, 4 wires, pinout 1-1, for vpp header(jnvi2c1),RoHS/REACH
			Power Cord Type IEC (C14 to C13) 3 ft (14AWG), 15A,

Cable 2	CBL-PWCD-0578	2	250V,HF,RoHS/REACH,PBF
Cable 3	CBL-PWEX-0863	1	Powerlug to 5.7 Radsok, yel 12AWG, 32cm for SC946S
Cable 4	CBL-PWEX-1024	1	Powerlug to 5.7 Radsok, black 12AWG, 45cm,RoHS
Cable 5	CBL-SAST-0834	2	SLIMLINE SAS to MiniSAS HD, INT, 50CM, 32AWG
Heatsink / Retention	SNK-P0068PS	1	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)
Add-on Card	AOC-S3108L-H8IR	1	LSI 3108 based SAS3 RAID, 12Gb, 8 internal ports, 240HDD - RAID 0,1,10,5,6,50,60, Gen3 x8 Standard Low Profile

Optional Parts List

	Part Number	Qty	Description
Peripheral Drives	MCP-220-82616-0N	-	Rear hot-swap drive 2x 2.5" SATA drive kit
NVMe Optional Parts (Complete System Only)	MCP-220-82619-0N	1	Rear hot-swap 2.5" x2 NVMe drive kit
	CBL-SAST-0849	2	OCuLink v1.0 INT PCIe NVMe SSD, 65CM, 34AWG, RoHS/REACH
	AOC-SLG3-2E4	1	Low Profile 6.4Gb/s Dual-Port NVMe Internal Host Bus Adapter
	CBL-0234L	1	4-PIN POWER SUPPLY Y-CABLE for HDD, 15CM, 20AWG