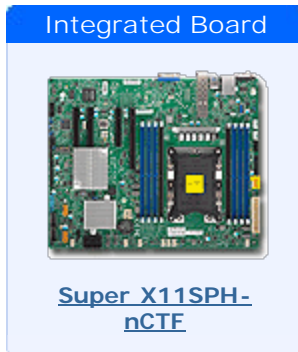


SuperStorage Server 5049P-E1CTR36L



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Key Features

- Connectivity/Storage Compute Nodes
- Database Processing & Storage Appliance Platform

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. 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8)
4. 2x 10GBase-T with Intel® X557
5. 36 Hot-swap 3.5" SAS/SATA drive bays with SES3 (24 front + 12 rear); 4 Internal fixed 2.5" drive bays 2 Hot-swap 2.5" NVMe/SATA (rear, optional)
6. SAS3 via Broadcom 3008 controller
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 7 High-performance 8cm PWM fans
9. 1200W 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-5049P-E1CTR36L	▪ SuperServer 5049P-E1CTR36L (Black)

Motherboard	
<u>Super X11SPH-nCTF</u>	

Processor/Cache	
CPU	▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP 70-205W
Cores	▪ Up to 28 Cores with Intel® HT Technology

System Memory	
Memory Capacity	▪ 8 DIMM slots ▪ Up to 1TB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz

Chassis	
Form Factor	▪ 4U Rackmount
Model	▪ CSE-847BTS-R1K23LPBP

Dimensions and Weight	
Width	▪ 17.2" (437mm)
Height	▪ 7" (178mm)
Depth	▪ 27.5" (699mm)
Package	▪ 17.5" (H) x 27" (W) x 39.5" (D)
Weight	▪ Gross Weight: 102.5 lbs (46.4 kg) ▪ Net Weight: 65.5 lbs (29.7 kg)
Available Colors	▪ Black

Front Panel	
Buttons	▪ Power On/Off button ▪ System Reset button
	▪ Power status LED

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C622 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via C622 controller RAID 0, 1, 5, 10 support
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3008 SW RAID 0, 1, 10
Network Controllers	<ul style="list-style-type: none"> Dual LAN with 10GBase-T with Intel® X722 + X557
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 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports (rear) 2x USB 2.0 ports (rear)
VGA	<ul style="list-style-type: none"> 1x 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
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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

LEDs	<ul style="list-style-type: none"> 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"> 1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 1 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8)
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Drive Bays / Storage

Hot-swap	<ul style="list-style-type: none"> 36 Hot-swap 3.5" SAS/SATA drive bays (24 front + 12 rear drive bays)
Fixed	<ul style="list-style-type: none"> 4 Internal fixed 2.5" drive bays
Optional	<ul style="list-style-type: none"> 2 Hot-swap 2.5" NVMe/SATA drive bays (rear)
M.2	<ul style="list-style-type: none"> Interface: PCIe 3.0 x4 Form Factor: 2280

Backplane

SAS3 / SATA3 single expander per backplane
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System Cooling

Fans	<ul style="list-style-type: none"> 7 High-performance 80mm cooling fans
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Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1200W
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40 x 336 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 15-12A / 50-60Hz 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only)
+12V	<ul style="list-style-type: none"> Max: 83A / Min: 0A (100-127Vac) Max: 100A / Min: 0A (200-240Vac) Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	<ul style="list-style-type: none"> Max: 4A / Min: 0A
Output Type	<ul style="list-style-type: none"> 19 Pairs Gold Finger Connector

Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]</p>
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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-X11SPH-nCTF	1	Super X11SPH-nCTF Motherboard
	CSE-847BTS-R1K23LPBP	1	4U Chassis
Add-on Card / Module	AOM-SAS3-8I8E-LP	1	8-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket,HF,RoHS/REACH
Backplane	BPN-SAS3-826EL1	1	12-port 2U SAS3 12Gbps single-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD
Backplane	BPN-SAS3-846EL1	1	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0296L	4	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 2	CBL-SAST-0531-01	6	MINI SAS HD,12G,INT,80CM,30AWG
Parts	MCP-260-00109-0N	1	Standard I/O Shield for X11SPM-TF with EMI Gasket
Manual	MNL-1992-QRG	1	5049P-E1CR36L Quick Reference Guide
Heatsink / Retention	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH
FAN 1	FAN-0158L4	7	80x80x38 mm, 10.5K RPM, Optional Middle Cooling Fan for X10 2U Ultra and HFT Series Servers,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
Drive Tray	MCP-220-84701-0N	-	Internal drive tray for one 3.5" HDD or two 2.5" HDD
Peripheral Drives	MCP-220-82609-0N	-	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-0819	2	OCuLink v1.0 INT PCIe NVMe SSD, 65CM, 34AWG, RoHS/REACH