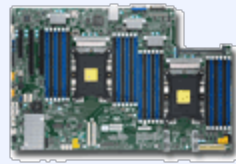


SuperStorage 2029P-E1CR48H (Complete System Only)



Integrated Board



Super X11DSC+

Due to the complexity of integration, this product is sold as a completely assembled system only (with minimum 2 CPUs, 2 DIMMs, 12 HDDs and 1 NIC or SIOM card).

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

Coming Soon

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, 1 PCI-E 3.0 x8 + x8 for SAS3 Add-On-Module (AOM), 1 [SIOM](#) card support (flexible networking)
4. 48 Hot-swap 2.5" SAS3/SATA3 drive bays; 2 hot-swap 2.5" drive bays (rear)
5. Broadcom 3108 SAS3, HW RAID
6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
7. 5x 8cm high-performance PWM fans
8. 1600W 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-2029P-E1CR48H	<ul style="list-style-type: none"> ▪ SuperServer 2029P-E1CR48H (Black)
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Motherboard

Super X11DSC+

Processor/Cache

CPU	<ul style="list-style-type: none"> ▪ Dual Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ▪ Support CPU TDP 70-205W
Cores	<ul style="list-style-type: none"> ▪ Up to 28 Cores with Intel® HT Technology

System Memory

Memory	<ul style="list-style-type: none"> ▪ 24 DIMM slots ▪ Up to 3TB ECC 3DS LRDIMM, 768GB
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Chassis

Form Factor	<ul style="list-style-type: none"> ▪ 2U Rackmount
Model	<ul style="list-style-type: none"> ▪ CSE-226STS-R1K62P1



Dimensions

Width	<ul style="list-style-type: none"> ▪ 17.2" (437mm)
Height	<ul style="list-style-type: none"> ▪ 3.5" (89mm)
Depth	<ul style="list-style-type: none"> ▪ 30" (684mm)
Gross Weight	<ul style="list-style-type: none"> ▪ 65 lbs (29.5 kg)
Available Colors	<ul style="list-style-type: none"> ▪ Black

Front Panel

Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
	<ul style="list-style-type: none"> ▪ Power status LED

Capacity	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); RAID 0, 1, 5, 10, 50
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
Video	<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
Video	<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 KVM with dedicated LAN 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"> Hard drive activity LED Network activity LEDs System Overheat LED Power fail LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 slots 1 PCI-E 3.0 x8 slot 1 PCI-E 3.0 x8 + x8 for SAS3 Add-On-Module (AOM) 1 SIOM card support (flexible networking)
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 48 Hot-swap 2.5" SAS3/SATA3 drive bays 2 Hot-swap 2.5" SATA3 drive bays (rear)
Backplane	
SAS3 12Gb/s direct attached storage backplane, w/ 24x SAS3 2.5" drive slots	
System Cooling	
Fans	<ul style="list-style-type: none"> 5x 8cm high-performance PWM fans
Power Supply	
1600W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1600W/1000W
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac)
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]
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-226STS-R1K62P1	1	2U Chassis
Add-on Card / Module	AOM-S3108M-H8L-P	1	sas3 roc mez for X10dsc
Backplane	BPN-SAS3-226SEL1-N4	2	24-port 2U Simply-Double SAS3 12Gbps single-expander backplane, support up to 20x 2.5-inch SAS3/SATA3 HDD/SSD and 4x NVMe/SAS3/SATA3 storage devices

Cable 1	CBL-SAST-0836	2	MINI SAS HD,INT,SAS3 SSD,48CM,32AWG
Cable 2	CBL-SAST-0844	2	SLIMLINE SAS to MiniSAS HD,INT,85CM,30D-41F-14D,no sidebend,32AWG
Parts	MCP-220-82616-0N	1	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K62A-1R	2	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH
FAN 1	FAN-0168L4	5	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for SC226S Chassis (48-bay)
Drive Tray(s)	MCP-220-00047-0B	48	Black 3rd Gen hot-swap 2.5" HDD tray

Optional Parts List

	Part Number	Qty	Description
3108 Cache Protection	BTR-TFM8G-LSICVM02	1	SuperCap Module
	BKT-BBU-BRACKET-05	1	Mounting PCIe Card
HDD bracket	MCP-220-82609-0N	1	2.5" Rear HDD Kit
HDD bracket	MCP-220-82611-0N	1	Dual 2.5" fixed HDD tray
	CBL-0289L	1	HDD Power Cable
	CBL-0473L	2	HDD SATA Cable
Cable	CBL-0099	1	HDD Y-Split Cable
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)