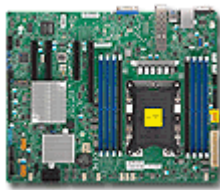


SuperStorage 5029P-E1CTR12L



Integrated Board



Super X11SPH-nCTF

**Views: | Angled View | Top View |
| Front View | Rear View |**

► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ►
[Tested M.2 List](#) ► [NVMe Options](#) ► [Manuals](#) ► [OS](#)
[Certification Matrix](#) ► [Quick-References Guide](#) ► [Drive](#)
[Options](#) ► [Network Card \(AOC\) Matrix](#)

Key Applications

- Application and data serving
- Connectivity/Storage Compute Nodes
- High Availability Storage Appliance Platform

Key Features

1. Single Socket P (LGA 3647) supports 2nd Gen Intel® Xeon® Scalable processor (Cascade Lake/Skylake)[‡]
2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
3. 1 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8)
4. 2x 10GBase-T with Intel® X557
5. 12 Hot-swap 3.5" SAS/SATA drive bays with SES3; 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. 3 High-performance 80mm PWM fans
9. 800W Redundant Power Supplies **Titanium Level (96%)**

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

Specifications

Product SKUs

SSG-5029P-E1CTR12L	■ SuperStorage 5029P-E1CTR12L (Black)
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Motherboard

Super X11SPH-nCTF

Processor/Cache

CPU	■ Single Socket P (LGA 3647) ■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors† ■ Support CPU TDP 70-205W
Cores	■ Up to 28 Cores
Note	† BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity	■ 8 DIMM slots ■ Up to 2TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM ■ Supports Intel® Optane™ DCPMM††
Memory Type	■ 2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	† 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro †† Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset	■ Intel® C622 chipset
SATA	■ SATA3 (6Gbps) via C622 controller ■ RAID 0, 1, 5, 10 support
SAS	■ SAS3 (12Gbps) via Broadcom 3008 ■ SW RAID 0, 1, 10
Network Controllers	■ Dual LAN with 10GBase-T with Intel® X722 + X557
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	■ ASPEED AST2500 BMC

Input / Output

SATA	■ 10 SATA3 (6Gbps) ports
LAN	■ 2 RJ45 10GBase-T LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A) ■ 8 USB 2.0 ports (2 rear + 6 headers)
VGA	■ 1 VGA port

Chassis

Form Factor	■ 2U Rackmount
Model	■ CSE-826BE1C-R802LPB

Dimensions

Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm)
Depth	■ 25.6" (648mm)
Package	■ 11.5" (H) x 26.5" (W) x 34" (D)
Weight	■ Gross Weight: 58 lbs (26.3 kg) ■ Net Weight: 34 lbs (15.4 kg)
Available Colors	■ Black

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power status LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Information LED ■ Power fail LED

Expansion Slots

PCI-Express	■ 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)
M.2	■ 1x M.2 Interface: PCI-E 3.0 x4 and SATA ■ Form Factor: 2280 ■ Key: M-Key ■ Double Height Connector

Drive Bays / Storage

Hot-swap	■ 12 Hot-swap 3.5" SAS/SATA drive bays with SES3
Optional	■ 2 Hot-swap 2.5" NVMe/SATA drive bays (rear)

Backplane

SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSI SAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for downlink

System Cooling

Fans	■ 3 High-performance 80mm PWM fans
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Power Supply (76mm Width)

800W Redundant Power Supplies with PMBus

Serial Port / Header	2 COM Ports (1 rear, 1 header)
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System BIOS

BIOS Type	AMI UEFI
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Management

Software	- Intel® Node Manager <u>IPMI 2.0</u> - KVM with dedicated LAN - NMI <u>SPM, SUM</u> <u>SuperDoctor® 5</u> - Watch Dog
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Power Configurations	ACPI Power Management
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PC Health Monitoring

CPU	- Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
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FAN	- Fans with tachometer monitoring - Status monitor for speed control - Pulse Width Modulated (PWM) fan connectors
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Temperature	- Monitoring for CPU and chassis environment - Thermal Control for fan connectors
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Total Output Power	800W: 100 – 240Vac 800W: 200 – 240Vdc
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Dimension (W x H x L)	76 x 40 x 336 mm
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Input	800W: 100-240Vac / 50-60Hz 800W: 200-240Vdc
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+12V	- Max: 66A / Min: 0A (100-240Vac) - Max: 66A / Min: 0A (200-240Vdc)
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+5Vsb	Max: 4A / Min: 0A
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Output Type	Gold Finger
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Certification	 Titanium Level
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Operating Environment

RoHS	RoHS Compliant
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Environmental Spec.	- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) - Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) - Operating Relative Humidity: 8% to 90% (non-condensing) - Non-operating Relative Humidity: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SPH-nCTF	1	Super X11SPH-nCTF Motherboard
	CSE-826BE1C-R802LPB	1	2U 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
Cable 1	CBL-SAST-0532	2	MINI SAS HD,12G,INT,50CM,30AWG
Cable 2	CBL-SAST-0568	2	MINI SAS HD,12G,INT,35CM,30AWG
Parts	MCP-260-00109-0N	1	Standard I/O Shield for X11SPM-TF with EMI Gasket
Manual	MNL-1991-QRG	1	5029P-E1CR12L 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-802A-1R	2	1U 800W 100-240Vac/47-63Hz, and DC240 input
FAN 1	FAN-0158L4	3	80x80x38 mm, 10.5K RPM, Optional Middle Cooling Fan for X10 2U Ultra and HFT Series Servers,RoHS/REACH
Drive Tray(s)	MCP-220-00075-0B	12	Black 3.5" HDD tray

Optional Parts List

	Part Number	Qty	Description
2.5" to 3.5" Converter Tray	MCP-220-00043-0N	-	Black Hot-swap Gen-4 2.5" to 3.5" HDD tray
Peripheral Drives	MCP-220-82616-0N	1	Rear Window 12G 2x 2.5" HDD Module
Storage Controller card & cable	AOC-S3108L-H8iR	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
CacheVault	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108 with SuperCap mounting bracket for PCI-E location
Network Card(s)	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350-AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGF-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel X710-BM2
	AOC-STG-B4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom
	AOC-STGS-i2T	-	BCM57840S
	AOC-S25G-b2S	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X550-AT2
	AOC-S25G-m2S	-	Standard LP, 2x 25GbE SFP28, PCI-E x8, Broadcom BCM57414
			Standard LP, 2x 25GbE SFP28, PCI-E x8, Mellanox CX-4 LX
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
Front Bezels	MCP-210-82601-0B	1	Black front bezels
TPM security module	AOM-TPM-9670V	1	TPM 2.0, vertical form factor
	AOM-TPM-9671V	1	TPM 1.2, vertical form factor
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 • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

