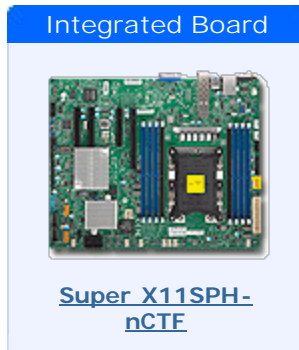


# SuperStorage Server 5029P-E1CTR12L



**Super X11SPH-nCTE**

## Key Features

- Application and data serving
- Connectivity/Storage Compute Nodes
- High Availability 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. 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%)

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

## Specifications

Product SKUs	
SSG-5029P-E1CTR12L	▪ SuperServer 5029P-E1CTR12L (Black)
Motherboard	
Super X11SPH-nCTE	
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>▪ Single Socket P (LGA 3647)</li> <li>▪ Intel® Xeon® Scalable Processors</li> <li>▪ Support CPU TDP 70-205W</li> </ul>
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 8 DIMM slots</li> <li>▪ Up to 1TB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz</li> </ul>
Memory Type	▪ 2666/2400/2133MHz ECC DDR4 SDRAM

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	<ul style="list-style-type: none"> <li>▪ Gross Weight: 58 lbs (26.3 kg)</li> <li>▪ Net Weight: 34 lbs (15.4 kg)</li> </ul>
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</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> </ul>

On-Board Devices	
Chipset	<ul style="list-style-type: none"> <li>Intel® C622 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) via C622 controller</li> <li>RAID 0, 1, 5, 10 support</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via Broadcom 3008</li> <li>SW RAID 0, 1, 10</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual LAN with 10GBase-T with Intel® X722 + X557</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>

Input / Output	
SATA	<ul style="list-style-type: none"> <li>10 SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2 RJ45 10GBase-T LAN ports</li> <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>2 USB 2.0 ports (rear)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>2 COM Ports (1 rear, 1 header)</li> </ul>

System BIOS	
BIOS Type	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>

Management	
Software	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>IPMI 2.0</li> <li>KVM with dedicated LAN</li> <li>NMI</li> <li>SPM, SUM</li> <li>SuperDoctor® 5</li> <li>Watch Dog</li> </ul>
Power Configurations	<ul style="list-style-type: none"> <li>ACPI Power Management</li> </ul>

PC Health Monitoring	
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>

<ul style="list-style-type: none"> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
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Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16</li> <li>1 PCI-E 3.0 x8</li> <li>1 PCI-E 3.0 x8</li> <li>1 PCI-E 2.0 x4 (in x8)</li> </ul>

Drive Bays / Storage	
Hot-swap	<ul style="list-style-type: none"> <li>12 Hot-swap 3.5" SAS/SATA drive bays with SES3</li> </ul>
Optional	<ul style="list-style-type: none"> <li>2 Hot-swap 2.5" NVMe/SATA drive bays (rear)</li> </ul>
M.2	<ul style="list-style-type: none"> <li>Interface: PCIe 3.0 x4</li> <li>Form Factor: 2280</li> </ul>

Backplane	
SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSISAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for downlink	

System Cooling	
Fans	<ul style="list-style-type: none"> <li>3 High-performance 80mm PWM fans</li> </ul>

Power Supply (76mm Width)	
800W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>800W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>76 x 40 x 336 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>800W: 100-240Vac / 50-60Hz</li> <li>800W: 200-240Vac / 50-60Hz</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 66A / Min: 0A (100-240Vac)</li> <li>Max: 66A / Min: 0A (200-240Vdc)</li> </ul>
+5Vsb	<ul style="list-style-type: none"> <li>Max: 4A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>Gold Finger</li> </ul>

Certification	 UL/cUL/CB/BSMI/CE/CCC Titanium Level
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Operating Environment	
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
<b>Motherboard / Chassis</b>	MBD-X11SPH-nCTF	1	Super X11SPH-nCTF Motherboard
	CSE-826BE1C-R802LPB	1	2U Chassis
<b>Add-on Card / Module</b>	AOM-SAS3-8I8E-LP	1	8-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket,HF,RoHS/REACH
<b>Backplane</b>	BPN-SAS3-826EL1	1	12-port 2U SAS3 12Gbps single-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD
<b>Cable 1</b>	CBL-SAST-0532	2	MINI SAS HD,12G,INT,50CM,30AWG
<b>Cable 2</b>	CBL-SAST-0568	2	MINI SAS HD,12G,INT,35CM,30AWG
<b>Parts</b>	MCP-260-00109-0N	1	Standard I/O Shield for X11SPM-TF with EMI Gasket
<b>Manual</b>	MNL-1991-QRG	1	5029P-E1CR12L Quick Reference Guide
<b>Heatsink / Retention</b>	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Power Supply</b>	PWS-802A-1R	2	1U 800W 90-264VAC/47-63Hz, and wide DC input 180Vdc~300Vdc
<b>FAN 1</b>	FAN-0158L4	3	80x80x38 mm, 10.5K RPM, Optional Middle Cooling Fan for X10 2U Ultra and HFT Series Servers,RoHS/REACH
<b>Drive Tray(s)</b>	MCP-220-00075-0B	12	Black 3.5" HDD tray

### Optional Parts List

	Part Number	Qty	Description
<b>Peripheral Drives</b>	MCP-220-82609-0N	-	Rear hot-swap drive 2x 2.5" SATA drive kit
<b>Peripheral Drives</b>	MCP-220-82619-0N	-	Rear hot-swap 2.5" x2 NVMe drive kit (NVMe AOC is not included)