

# SuperStorage 6029P-E1CR24H (Complete System Only)



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](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)
[▶ Drive Options](#)

## 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 [SIOM](#) card support (flexible networking)  
Note: must bundle with Network card
4. 24 Hot-swap 3.5" 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-6029P-E1CR24H
- SuperServer 6029P-E1CR24H (Black)

### Motherboard

[Super X11DSC+](#)

### Processor/Cache

- CPU
- Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
  - Support CPU TDP 70-165W
- Cores
- Up to 28 Cores with Intel® HT Technology

### System Memory

- Memory Capacity
- 24 DIMM slots
  - Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM, DDR4 up to 2666MHz

### Chassis

- Form Factor
- 2U Rackmount
- Model
- CSE-826STS-R1K62P1



### Dimensions

- Width
- 17.2" (437mm)
- Height
- 3.5" (89mm)
- Depth
- 34" (863mm)
- Gross Weight
- 
- Available Colors
- Black

### Front Panel

- Buttons
- Power On/Off button
  - System Reset button
- Power status LED
-

Memory Type	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C621 chipset</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via Broadcom 3108; HW RAID</li> <li>RAID 0, 1, 5, 6, 10, 50, 60</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1, 5, 10</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>
Video	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
Serial ATA	<ul style="list-style-type: none"> <li>8 SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <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>1 Type A</li> </ul>
Video	<ul style="list-style-type: none"> <li>1 VGA D-Sub connector port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1 Fast UART 16550 port / 1 Header</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>
<b>Management</b>	
Software	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>IPMI 2.0</li> <li>NMI</li> <li>SSM, SPM, SUM</li> <li>SuperDoctor® 5</li> <li>Watchdog</li> </ul>
<b>PC Health Monitoring</b>	
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>

LEDs	<ul style="list-style-type: none"> <li>Hard drive activity LED</li> <li>Network activity LEDs</li> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16 slots</li> <li>1 PCI-E 3.0 x8 slot</li> <li>1 <a href="#">SIOM</a> card support (must bundle with network card)</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>24 Hot-swap 3.5" SAS3/SATA3 drive bays</li> <li>2 Hot-swap 2.5" SATA3 drive bays (rear)</li> </ul>
<b>Backplane</b>	
SAS3 12Gb/s direct attached storage backplane, w/ 24x SAS3 2.5" drive slots	
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>5x 8cm high-performance PWM fans</li> </ul>
<b>Power Supply</b>	
1600W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>1600W/1000W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>73.5 x 40 x 203 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>100-127Vac / 13 - 9A / 50-60Hz</li> <li>200-240Vac / 10 - 8A / 50-60Hz</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 83.3A / Min: 0A (100-127Vac)</li> <li>Max: 133A / Min: 0A (200-240Vac)</li> </ul>
12Vsb	<ul style="list-style-type: none"> <li>Max: 2.1A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>25 Pairs Gold Finger Connector</li> </ul>
Certification	  <ul style="list-style-type: none"> <li>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ <a href="#">Test Report</a> ]</li> </ul>
<b>Operating Environment</b>	
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
Motherboard / Chassis	MBD-X11DSC+	1	Super X11DSC+ Motherboard
	CSE-826STS-R1K62P1	1	2U Chassis
Add-on Card / Module	AOM-S3108M-H8L-P	1	sas3 roc mez for X10dsc
Backplane	BPN-SAS3-826SEL1-N4	2	12-port 2U Simply-Double SAS3 12Gbps single-expander backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD and 4x NVMe/SAS3/SATA3 storage devices
Cable 1	CBL-PWEX-0702	1	PWEX,2X4F/P4.2 TO

			1X4F/P5.08/RA,32CM,18AWG,YEL,BLK*2,RED
Cable 2	CBL-SAST-0835	2	SLIMLINE SAS to MiniSAS HD, INT, 100CM, 32AWG
Cable 3	CBL-SAST-0836	2	MINI SAS HD,INT,SAS3 SSD,48CM,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)

#### Optional Parts List

	Part Number	Qty	Description
Converter Tray	MCP-220-00140-0B	-	Hot-swap 3.5" to 2.5" converter tray
2x 2.5" rear SATA drive bay to support (2+2) drive bays	CBL-PWEX-0650	1	8-pin female to 2 Right Angle big 4-pin female power, 47/62cm
	MCP-240-22603-0N	1	2U Rear Window support (2 + 2) 2.5 HDD
	MCP-240-22604-0N	1	2U Rear plate support (2 + 2) 2.5 HDD
	MCP-220-82609-0N	1	Rear 2.5 x 2 Hot swap HDD kit
3108 Cache Protection	BTR-CV3108-FT1	-	Broadcom 3108 CacheVault kit (ROHS, Reach)
4 NVMe Drives Support	CBL-SAST-0929	4	OCuLink 0.91 to MiniSAS HD,INT,PCIe NVMe SSD, 57CM,34AWG
	MCP-220-00140-0B	4	Hot-swap 3.5" to 2.5" converter tray
Global Services & Support	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	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)
SIOM Network Card(s)	<a href="#">AOC-MGP-I2</a>	-	SIOM 2-port GbE, Intel i350-AM2
	<a href="#">AOC-MGP-I4</a>	-	SIOM 4-port GbE, Intel i350-AM4
	<a href="#">AOC-MTG-I2T</a>	-	SIOM 2-port 10GBase-T, Intel X550
	<a href="#">AOC-MTG-I4T</a>	-	SIOM 4-port 10GBase-T, Intel X550
	<a href="#">AOC-MTGN-I2S</a>	-	SIOM 2-port 10G SFP+, Intel 82599ES
	<a href="#">AOC-MTG-I4S</a>	-	SIOM 4-port 10G SFP+, Intel XL710