

# SuperStorage Server 2029P-ACR24H



3 Broadcom 3108 AOC



Integrated Board

Super X11DPH-T

## 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 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8
4. 24 Hot-swap 2.5" SAS3/SATA3 direct attached drive bays
5. 3 Broadcom 3108 SAS3 AOC (HW RAID)
6. 2x 10GBase-T LAN ports with Intel X722 + PHY Intel X557
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 3 Hot-swap 8cm redundant PWM fans
9. 1200W Redundant Power Supplies Titanium Level (96%)

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

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-ACR24H
- SuperServer 2029P-ACR24H (Black)

### Motherboard

Super X11DPH-T

### Processor/Cache

- CPU
- Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
  - Support CPU TDP 70-205W
- Cores
- Up to 28 Cores with Intel® HT Technology

### System Memory

- Memory Capacity
- 16 DIMM slots
  - Up to 2TB ECC 3DS LRDIMM, 512GB ECC RDIMM, DDR4 up to 2666MHz
- Memory

### Chassis

- Form Factor
- 2U Rackmount
- Model
- CSE-216BE1C4-R1K23LPB


### Dimensions

- Width
- 17.2" (437mm)
- Height
- 3.5" (89mm)
- Depth
- 24.8" (630mm)
- Gross Weight
- 61 lbs (27.7 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

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® C624 chipset</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via Broadcom 3108 AOC; HW RAID</li> <li>3 Broadcom 3108 controller</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>
Network Controllers	<ul style="list-style-type: none"> <li>Dual 10GBase-T LAN ports with Intel X722 + PHY Intel 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>
Video	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
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>4 USB 3.0 ports (rear)</li> <li>1 Type A</li> </ul>
Video	<ul style="list-style-type: none"> <li>1 VGA 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>256Mb 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>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>

	<ul style="list-style-type: none"> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>3 PCI-E 3.0 x16 slot</li> <li>4 PCI-E 3.0 x8 slots</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>24 Hot-swap 2.5" SAS3/SATA3 drive bays</li> </ul>
Optional	<ul style="list-style-type: none"> <li>2 Optional Onboard NVMe M.2</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>3 Hot-swap 8cm redundant PWM cooling fans</li> </ul>
<b>Power Supply (76mm Width)</b>	
1200W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>1000W/1200W</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>100-127Vac / 15-12A / 50-60Hz</li> <li>200-240Vac / 8.5-7A / 50-60Hz</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 83A / Min: 0A (100-127Vac)</li> <li>Max: 100A / Min: 0A (200-240Vac)</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>19 Pairs Gold Finger Connector</li> </ul>
Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ <a href="#">Test Report</a> ]</p>
<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
<b>Motherboard / Chassis</b>	MBD-X11DPH-T	1	Super X11DPH-T Motherboard
	CSE-216BE1C4-R1K23LPB	1	2U Chassis
<b>Add-on Card / Module</b>	AOC-S3108L-H8iR-16DD-P	3	AOC-S3108L-H8iR-16DD
<b>Backplane</b>	BPN-SAS3-216A-N4	1	24-port 2U SAS3 12Gbps hybrid backplane, support up to 20x 2.5-inch SAS3/SATA3 HDD/SSD and 4x SAS3/SATA3/NVMe Storage Devices
<b>Cable 1</b>	CBL-0099	1	Power extension cable; one HDD to two HDD and two FDD. 35/25/12cm. 22AWG
<b>Cable 2</b>	CBL-SAST-0531	4	MINI SAS HD,12G,INT,80CM,30AWG
<b>Cable 3</b>	CBL-SAST-0532	2	MINI SAS HD,12G,INT,50CM,30AWG
<b>Parts</b>	MCP-220-82616-0N	1	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
<b>Parts</b>	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
<b>Heatsink / Retention</b>	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Heatsink / Retention</b>	SNK-P0068PSC	1	2U Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
<b>Power Supply</b>	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH
<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-220-00047-0B	24	Black 3rd Gen hot-swap 2.5" HDD tray

### Optional Parts List

	Part Number	Qty	Description
<b>3108 Cache Protection</b>	BTR-TFM8G-LSICVM02	1	SuperCap Module
	BKT-BBU-BRACKET-05	1	Mounting PCIe Card
<b>HDD bracket</b>	MCP-220-82611-0N	1	Dual 2.5" fixed HDD tray
	CBL-0289L	1	HDD Power Cable
	CBL-0473L	2	HDD SATA Cable
<b>Cable</b>	CBL-0099	1	HDD Y-Split Cable
<b>Global Services &amp; Support</b>	<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
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)