

SuperStorage Server 2029P-E1CR24L



Broadcom 3008 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 (slot 2 & 3 occupied by controller and JBOD expansion port)
4. 24 Hot-swap 2.5" SAS3/SATA3 direct attached drive bays
5. Broadcom 3008 SAS3 AOC
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](#)
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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-2029P-E1CR24L ■ SuperServer 2029P-E1CR24L (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

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
 ■ Power status LED

ECC RDIMM, DDR4 up to 2666MHz

Memory Type ■ 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset ■ Intel® C624 chipset

SAS ■ SAS3 (12Gbps) via Broadcom 3008 AOC
■ Broadcom 3008 controller

SATA ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Controllers ■ Dual 10GBase-T LAN ports with Intel X722 + PHY Intel X557

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Video ■ ASPEED AST2500 BMC

Input / Output

LAN ■ 2 RJ45 10GBase-T LAN ports
■ 1 RJ45 Dedicated IPMI LAN port

USB ■ 4 USB 3.0 ports (rear)
■ 1 Type A

Video ■ 1 VGA port

Serial Port / Header ■ 1 Fast UART 16550 port / 1 Header

System BIOS

BIOS Type ■ 256Mb AMI UEFI

Management

Software ■ Intel® Node Manager
■ [IPMI 2.0](#)
■ NMI
■ [SPM](#), [SUM](#)
■ [SuperDoctor® 5](#)
■ Watchdog

PC Health Monitoring

CPU ■ Monitors for CPU Cores, Chipset Voltages, Memory.
■ 4+1 Phase-switching voltage regulator

FAN ■ Fans with tachometer monitoring
■ Status monitor for speed control
■ Pulse Width Modulated (PWM) fan connectors

Temperature ■ Monitoring for CPU and chassis environment
■ Thermal Control for fan connectors

LEDs ■ Hard drive activity LED
■ Network activity LEDs
■ System Overheat LED
■ Power fail LED

Expansion Slots

PCI-Express ■ 3 PCI-E 3.0 x16 slot
■ 4 PCI-E 3.0 x8 slots
■ Slot 2 & 3 occupied by controller and JBOD Expansion Port

Drive Bays

Hot-swap ■ 24 Hot-swap 2.5" SAS3/SATA3 drive bays
Optional ■ 2 Optional Onboard NVMe M.2

Backplane

SAS3 12Gb/s direct attached storage backplane, w/ 24x SAS3 2.5" drive slots

System Cooling

Fans ■ 3 Hot-swap 8cm redundant PWM cooling fans

Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

Total Output Power ■ 1000W/1200W

Dimension (W x H x L) ■ 76 x 40 x 336 mm

Input ■ 100-127Vac / 15-12A / 50-60Hz
■ 200-240Vac / 8.5-7A / 50-60Hz

+12V ■ Max: 83A / Min: 0A (100-127Vac)
■ Max: 100A / Min: 0A (200-240Vac)

+5Vsb ■ Max: 4A / Min: 0A

Output Type ■ 19 Pairs Gold Finger Connector

Certification



UL/cUL/CB/BSMI/CE/CCC
Titanium Level
[[Test Report](#)]

Operating Environment

RoHS ■ RoHS Compliant

Environmental Spec. ■ 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-X11DPH-T	1	Super X11DPH-T Motherboard
	CSE-216BE1C4-R1K23LPB	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-SAS3-216EL1-N4	1	24-port 2U 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-0099	1	Power extension cable; one HDD to two HDD and two FDD. 35/25/12cm. 22AWG
Cable 2	CBL-SAST-0532	4	MINI SAS HD,12G,INT,50CM,30AWG
Parts	MCP-220-82616-0N	1	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heatsink / Retention	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	SNK-P0068PSC	1	2U Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH
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-220-00047-0B	24	Black 3rd Gen hot-swap 2.5" HDD tray

Optional Parts List			
	Part Number	Qty	Description
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)