

SuperStorage Server 6049P-E1CR36H



HW SAS3 Controller Storage Expandable



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. 36 Hot-swap 3.5" SAS3/SATA3 direct attached drive bays
5. Broadcom 3108 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 cooling fans, 2 hot-swap 8cm rear exhaust PWM fans PWM fans
9. 1200W Redundant Power Supplies Titanium Level (96%)

- ▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
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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-6049P-E1CR36H
 - SuperServer 6049P-E1CR36H (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

Chassis

- Form Factor
 - 4U Rackmount
- Model
 - [CSE-847BE1C4-R1K23LPB](#)

Dimensions

- Width
 - 17.2" (437mm)
- Height
 - 7" (178mm)
- Depth
 - 27.5" (699mm)
- Weight
 - Gross Weight: 102.5 lbs (46.4 kg)
 - Net Weight: 65.5 lbs (29.7 kg)

- Available Colors
 - Black

Cores	<ul style="list-style-type: none"> Up to 28 Cores with Intel® HT Technology
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System Memory

Memory Capacity	<ul style="list-style-type: none"> 16 DIMM slots Up to 2TB ECC 3DS LRDIMM, 512GB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C624 chipset
SAS	<ul style="list-style-type: none"> SAS3 (12Gbps) via Broadcom 3108 AOC; HW RAID RAID 0, 1, 5, 6, 10, 50, 60
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Dual 10GBase-T LAN ports with Intel X722 + PHY Intel X557
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC

Input / Output

LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4 USB 3.0 ports (rear) 1 Type A
VGA	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header

System BIOS

BIOS Type	<ul style="list-style-type: none"> 256Mb AMI UEFI
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Management

Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 NMI SPM, SUM SuperDoctor® 5 Watchdog
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

Front Panel

Buttons	<ul style="list-style-type: none"> Power On/Off button System Reset button
LEDs	<ul style="list-style-type: none"> Power status LED Hard drive activity LED Network activity LEDs System Overheat LED Power fail LED

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 3 PCI-E 3.0 x16 slot 4 PCI-E 3.0 x8 slots Slot 2 & 3 occupied by controller and JBOD Expansion Port
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 36 Hot-swap 3.5" SAS3/SATA3 drive bays
Optional	<ul style="list-style-type: none"> 2 Optional Onboard NVMe M.2

Backplane

SAS3/SATA3 single expander per backplane
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System Cooling

Fans	<ul style="list-style-type: none"> 3 Hot-swap 8cm redundant PWM cooling fans 2 Hot-swap 8cm rear exhaust PWM fans Redundant cooling
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Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1200W
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40 x 336 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 15-12A / 50-60Hz 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only)
+12V	<ul style="list-style-type: none"> Max: 83A / Min: 0A (100-127Vac) Max: 100A / Min: 0A (200-240Vac) Max: 100A / Min: 0A (200-240Vdc)
+5Vsb	<ul style="list-style-type: none"> Max: 4A / Min: 0A
Output Type	<ul style="list-style-type: none"> 19 Pairs Gold Finger Connector

Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]</p>
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Operating Environment

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPH-T	1	Super X11DPH-T Motherboard
	CSE-847BE1C4-R1K23LPB	1	4U Chassis
Add-on Card / Module	AOC-S3108L-H8IR	1	LSI 3108 based SAS3 RAID, 12Gb, 8 internal ports, 240HDD - RAID 0,1,10,5,6,50,60, Gen3 x8 Standard Low Profile
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-N4	1	12-port 2U SAS3 12Gbps single-expander backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD and 4x NVMe/SAS3/SATA3 storage devices
Backplane	BPN-SAS3-846EL1	1	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0296L	3	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 2	CBL-SAST-0531-01	4	MINI SAS HD,12G,INT,80CM,30AWG
Cable 3	CBL-SAST-0532	2	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	7	80x80x38 mm, 10.5K RPM, Optional Middle Cooling Fan for X10 2U Ultra and HFT Series Servers,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
3108 Cache Protection	BTR-TFM8G-LSICVM02	1	SuperCap for SAS3108 controller
	BKT-BBU-BRACKET-05	1	Mounting for SuperCap
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)