

SuperStorage 6049P-E1CR36L



SAS3 IT controller



Storage Expandable
Integrated Board



[./products/motherboard/Xeon/C620/X11DPH-](https://products/motherboard/Xeon/C620/X11DPH-)

[T.cfm](#)

[Super X11DPH-T \(/products/motherboard/Xeon/C620/X11DPH-T.cfm\)](https://products/motherboard/Xeon/C620/X11DPH-T.cfm)

Views: | [Angled View \(/a_images/products/views/6049P-E1CR36L_angle.jpg\)](#) | [Top View \(/a_images/products/views/6049P-E1CR36L_top.jpg\)](#) |

| [Front View \(/a_images/products/views/6049P-E1CR36L_front.jpg\)](#) | [Rear View \(/a_images/products/views/6049P-E1CR36L_rear.jpg\)](#) |

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=85990&ProductName=SS6049P-E1CR36L\)](#)

[NVMe Options](#) | [Manuals](#)

[OS Certification Matrix \(/en/support/resources/certification/SSG-6049P-E1CR36L\)](#)

[Drive Options](#)

Key Features

- Corporate Database
- Database Processing & Storage
- Enterprise Server
- HPC, Data Center
- iSCSI SAN

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]
2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
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 drive bays including 4 optional NVMe drives; 2 hot-swap 2.5" SATA3 drive bays (rear), 2 M.2 NVMe, Expander based backplane
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 cooling fans, 2 hot-swap 8cm rear exhaust PWM fans PWM fans
9. 1200W Redundant Power Supplies **Titanium Level (96%)**

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

Specifications

Product SKUs

SSG-6049P-E1CR36L

SuperStorage 6049P-E1CR36L (**Black**)

Motherboard

Super X11DPH-T

([/products/motherboard/Xeon/C620/X11DPH-T.cfm](https://products/motherboard/Xeon/C620/X11DPH-T.cfm)).

Processor/Cache

CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[†],

3 UPI up to 10.4GT/s

Support CPU TDP 70-205W

Cores

Up to 28 Cores

Note

[†] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity

16 DIMM slots

Up to 4TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM

Supports Intel® Optane™ DCPMM^{††}

Memory Type

2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

Note

[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

Chipset

Intel® C622 chipset

SAS

SAS3 (12Gbps) via Broadcom 3008 AOC

Broadcom 3008 controller

SATA

SATA3 (6Gbps) with 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

Graphics

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

VGA

1 VGA port

Serial Port / Header

1 Fast UART 16550 port / 1 Header

Chassis

Form Factor

4U Rackmount

Model

CSE-847BE1C4-R1K23LPB

([/products/chassis/4U/847/SC847BE1C4-R1K23LPB.cfm](https://products/chassis/4U/847/SC847BE1C4-R1K23LPB.cfm))

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

Front Panel

Buttons

Power On/Off button

System Reset button

LEDs

Power status LED

Hard drive activity LED

Network activity LEDs

System Information 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

36 Hot-swap 3.5" SAS3/SATA3 drive bays

2 Hot-swap 2.5" SATA3 drive bays (rear)

Optional

4 U.2 NVMe

2 M.2 NVMe

Backplane

SAS3/SATA3 single expander per backplane

System Cooling

Fans

3 Hot-swap 8cm redundant PWM cooling fans

2 Hot-swap 8cm rear exhaust PWM fans

Redundant cooling

Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

Total Output Power

1000W/1200W

System BIOS

BIOS Type

256Mb AMI UEFI

Management

Software

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](/solutions/IPMI.cfm)

NMI

[SPM \(/solutions/SMS_SPM.cfm\)](/solutions/SMS_SPM.cfm), [SUM](/solutions/SMS_SUM.cfm)

[\(/solutions/SMS_SUM.cfm\)](/solutions/SMS_SUM.cfm)

[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](/solutions/SMS_SD5.cfm)

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

Parts List

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

200-240Vdc / 8.5-7A (for CCC only)

+12V

Max: 83A / Min: 0A (100-127Vac)

Max: 100A / Min: 0A (200-240Vac)

Max: 100A / Min: 0A (200-240Vdc)

+5Vsb

Max: 4A / Min: 0A

Output Type

19 Pairs Gold Finger Connector

Certification



<http://www.plugloadsolutions.com/80PlusPowerSupply>



[id=69&type=1](#). Titanium Level

[[Test Report](#)

[\(/products/powersupply/80PLUS/80PLUS_PWS](/products/powersupply/80PLUS/80PLUS_PWS)

[1r.pdf](#).)]

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:

Certain products may not be available in your region

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)
