

SuperStorage 6039P-E1CR16L



Integrated Board



Super X11DPH-T

**Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |**

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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. 16 Hot-swap 3.5" SAS3/SATA3
drive bays; 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-6039P-E1CR16L** ■ SuperStorage 6039P-E1CR16L (**Black**)

Motherboard

Super X11DPH-T

Processor/Cache

- CPU** ■ Dual Socket P (LGA 3647)
■ 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)[‡],
3 UPI up to 10.4GT/s
■ Support CPU TDP 70-205W

- Cores** ■ Up to 28 Cores

- Note** [‡] BIOS version 3.0a or above is required to support 2nd Gen. Intel® Xeon® Scalable processors

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 Supramicro
^{††} Cascade Lake only. Contact your Supramicro 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

System BIOS

- BIOS Type** ■ 256Mb AMI UEFI

Chassis

- Form Factor** ■ 3U Rackmount

- Model** ■ **CSE-836BE1C-R1K23B**

Dimensions

- Width** ■ 17.2" (437mm)
- Height** ■ 5.2" (132mm)
- Depth** ■ 25.5" (648mm)
- Weight** ■ Gross Weight: 79 lbs (35.8 kg)
■ Net Weight: 48 lbs (21.8 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** ■ 16 Hot-swap 3.5" SAS3/SATA3 drive bays
- Optional** ■ 2 Optional Onboard NVMe M.2

Backplane

SAS3 12Gbps single expander backplane, w/ 16x SAS3 3.5" drive slots and 2x mini-SAS HD connectors for JBOD expansion

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

- 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)

Management

Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ NMI ■ <u>SPM, SUM</u> ■ <u>SuperDoctor® 5</u> ■ Watchdog
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PC Health Monitoring

CPU	■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-sw itching 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

+5Vsb	■ Max: 4A / Min: 0A
Output Type	■ 19 Pairs Gold Finger Connector
Certification	  Titanium Level [<u>Test Report</u>]

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-836BE1C-R1K23B	1	3U Chassis
Add-on Card / Module	AOM-SAS3-8I8E	1	8-port Mini SAS HD Int-to-Ext cable adapter w /FH bracket,HF,RoHS/REACH
Backplane	BPB-SAS3-836EL1	1	16-port 3U SAS3 12Gbps single-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-SAST-0531	4	MINI SAS HD, 12G,INT,80CM,30AWG
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped w ith a Narrow Retention Mechanism
Rear Window	MCP-220-83608-0N	-	Rear hot-sw ap drive bay for 2x 2.5" drives
* Power Supply	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH
* Power Distributor	PDB-PT826-8824	1	PDB w ith longer 24pin for SC826B
* Cable 2	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
* Cable 3	CBL-0088L	1	4 PIN MIDDLE FAN POWER CABLE (PWM). 27cm, 24AWG
* FAN 1	FAN-0125L4	2	80x32 mm 6.7K RPM SC836 Rear Exhaust Fan w / Housing
* FAN 2	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-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
* Drive Tray(s)	MCP-220-00075-0B	16	Black gen 5.5 hot-sw ap 3.5"; HDD tray
* Rear Window	MCP-240-83605-0N	1	836B chassis rear w indow (to support the optional MCP-220-83605-0N)
* Peripheral Drive 1	MCP-290-00007-01	1	Black DVD dummy cover for SC825, 836
* Rail Set	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
* Parts	MCP-290-83601-0V	1 set	Silver chassis handles (left and right) for SC836/835
* Air Shroud	MCP-310-39001-0N	1	SC835/836/936 Intel DP X9-X10 PC air shroud 1368x13/12x13MB
* Rail Set	MCP-410-00007-0N	1	Rail screw bag

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

	Part Number	Qty	Description
Converter Trays	MCP-220-00118-0B	-	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray
	MCP-220-00043-0N	-	Black hot-sw ap gen 4 3.5 to 2.5 HDD tray
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)