

# SuperStorage Server 6039P-E1CR16H



HW SAS3 Controller Storage Expandable



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. 16 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-6039P-E1CR16H
- SuperServer 6039P-E1CR16H (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

### 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

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

Chipset	<ul style="list-style-type: none"> <li>Intel® C624 chipset</li> </ul>
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SAS	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via Broadcom 3108 AOC; HW RAID</li> <li>RAID 0, 1, 5, 6, 10, 50, 60</li> </ul>
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SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</li> </ul>
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Network Controllers	<ul style="list-style-type: none"> <li>Dual 10GBase-T LAN ports with Intel X722 + PHY Intel X557</li> </ul>
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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>
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Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
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### Input / Output

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

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

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

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>
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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>
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Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>
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LEDs	<ul style="list-style-type: none"> <li>System Reset button</li> <li>Power status LED</li> <li>Hard drive activity LED</li> <li>Network activity LEDs</li> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
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### Expansion Slots

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> <li>Slot 2 &amp; 3 occupied by controller and JBOD Expansion Port</li> </ul>
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### Drive Bays

Hot-swap	<ul style="list-style-type: none"> <li>16 Hot-swap 3.5" SAS3/SATA3 drive bays</li> </ul>
Optional	<ul style="list-style-type: none"> <li>2 Optional Onboard NVMe M.2</li> </ul>

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

1200W Redundant Power Supplies with PMBus

Total Output Power	<ul style="list-style-type: none"> <li>1000W/1200W</li> </ul>
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Dimension (W x H x L)	<ul style="list-style-type: none"> <li>76 x 40 x 336 mm</li> </ul>
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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>
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+12V	<ul style="list-style-type: none"> <li>Max: 83A / Min: 0A (100-127Vac)</li> <li>Max: 100A / Min: 0A (200-240Vac)</li> </ul>
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+5Vsb	<ul style="list-style-type: none"> <li>Max: 4A / Min: 0A</li> </ul>
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Output Type	<ul style="list-style-type: none"> <li>19 Pairs Gold Finger Connector</li> </ul>
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Certification	 <p>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ <a href="#">Test Report</a> ]</p>
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### Operating Environment

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
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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>
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPH-T	1	Super X11DPH-T Motherboard
	CSE-836BE1C-R1K23B	1	3U Chassis
<b>Add-on Card / Module</b>	AOM-SAS3-8I8E	1	8-port Mini SAS HD Int-to-Ext cable adapter w/FH bracket,HF,RoHS/REACH
<b>Backplane</b>	BPN-SAS3-836EL1	1	16-port 3U SAS3 12Gbps single-expander backplane, support up to 16x 3.5-inch SAS3/SATA3 HDD/SSD
<b>Cable 1</b>	CBL-SAST-0531	4	MINI SAS HD,12G,INT,80CM,30AWG
<b>Parts</b>	MCP-220-83608-0N	1	12G Rear 2.5x2 Hot-swap HDD kit w/ Status LED for 836B/835B
<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	2	2U Passive CPU Heat Sink 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-0125L4	2	80x32 mm 6.7K RPM SC836 Rear Exhaust Fan w/ Housing
<b>FAN 2</b>	FAN-0158L4	3	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
<b>3108 Cache Protection</b>	BTR-TFM8G-LSICVM02	1	SuperCap for SAS3108 controller
	BKT-BBU-BRACKET-05	1	Mounting for SuperCap
<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)