

# SuperServer 6039P-TXRT



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## Key Features

- Industrial Server Solutions
- Surveillance DCR
- GPU support server
- Flash Array Server
- Data Acquisitions
- Video and Music Production

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. 2 PCI-E 3.0 x16 slots (HSSI), 2 PCI-E 3.0 x16 slots (or 4 PCI-E 3.0 x8), 4 PCI-E 3.0 x8 slots, 1 PCI-E 3.0 x4 (in x8 slot)
4. 8 Hot-swap 3.5" drive bays, 2 5.25" drive bays, 1 slim DVD-ROM drive bay, 1 FDD bay
5. 2x 10GBase-T LAN ports with Intel X550-AT2
6. Integrated IPMI 2.0 with KVM and Dedicated LAN
7. 1 PCI-E 3.0 x4 M.2 2280 slot from PCH
8. 3 middle fans & 1 rear exhaust fan
9. 980W Redundant Power Supplies Platinum Level (94%)

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

## Specifications

### Product SKUs

- SYS-6039P-TXRT
  - SuperServer 6039P-TXRT (Black)

### Motherboard

[Super X11DPX-T](#)

### Processor/Cache

- CPU
  - Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
  - Support CPU TDP 205W
- Cores
  - Up to 28 Cores with Intel® HT Technology

### System Memory

### Chassis

- Form Factor
  - 3U Rackmount
- Model
  - [CSE-835XTO-R982B](#)



### Dimensions

- Width
  - 17.2" (437mm)
- Height
  - 5.2" (132mm)
- Depth
  - 25.5" (648mm)
- Gross Weight
  - 72 lbs (32.6kg)
- 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>
Memory Type	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C621 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® X550-AT2 Dual Port 10GBase-T</li> </ul>
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>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
Serial ATA	<ul style="list-style-type: none"> <li>8 SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2 RJ45 10GBase-T ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2 USB 3.0 ports (rear)</li> <li>2 USB 2.0 ports (rear)</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1 COM port</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
DOM	<ul style="list-style-type: none"> <li>2 SuperDOM (Disk on Module) ports</li> </ul>
TPM	<ul style="list-style-type: none"> <li>1 TPM 2.0 Header</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>
<b>Management</b>	
Software	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li><a href="#">IPMI 2.0</a></li> <li>KVM with dedicated LAN</li> <li>NMI</li> <li><a href="#">SSM</a>, <a href="#">SPM</a>, <a href="#">SUM</a></li> <li><a href="#">SuperDoctor® 5</a></li> </ul>
Power Configurations	<ul style="list-style-type: none"> <li>ACPI Power Management</li> </ul>
<b>PC Health Monitoring</b>	
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>
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>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

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 information (overheat/UID) LED</li> <li>Power fail LED</li> </ul>
<b>Expansion Slots</b>	
PCI-Express	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 x16 slots (HSSI)</li> <li>2 PCI-E 3.0 x16 slots (or 4 PCI-E 3.0 x8 by MUX)</li> <li>4 PCI-E 3.0 x8 slots</li> <li>1 PCI-E 3.0 x4 (in x8 slot)</li> </ul>
<b>Drive Bays</b>	
Hot-swap	<ul style="list-style-type: none"> <li>8 Hot-swap 3.5" drive bays</li> </ul>
Others	<ul style="list-style-type: none"> <li>2 5.25" drive bays</li> </ul>
<b>Peripheral Bay</b>	
Peripheral Bay	<ul style="list-style-type: none"> <li>1 slim DVD-ROM drive</li> </ul>
<b>Backplane</b>	
1 SAS/SATA backplane	
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>3 Middle fans</li> <li>1 Rear exhaust fan</li> </ul>
<b>Power Supply with Power Distributor</b>	
850W/980W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus	
AC Input	<ul style="list-style-type: none"> <li>100-140 V, 50-60 Hz, 11.5-6.5 Amp</li> <li>180-240 V, 50-60 Hz, 6.5-4.5 Amp</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>4 Amp @ +5V Standby</li> <li>70 Amp @ +12V (100-140Vac)</li> <li>81 Amp @ +12V (180-240Vac)</li> </ul>
With Power Distributor	<ul style="list-style-type: none"> <li>+5V: 30 Amp</li> <li>+3.3V: 28 Amp</li> <li>-12V: 0.6 Amp</li> </ul>
Certification	  Platinum Level [ <a href="#">Test Report</a> ]
<b>Operating Environment</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
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>

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPX-T	1	Super X11DPX-T Motherboard
	CSE-835XTQ-R982B	1	3U Chassis
<b>Cable 1</b>	CBL-0097L-03	1	MINI SAS-4 SATA,INT,51CM,51CM SB,30AWG
<b>Cable 2</b>	CBL-0118L-03	1	MINI SAS-4 SATA,INT,23CM,25.5CM SB,30AWG
<b>Backplane</b>	CSE-SAS-833TQ	1	SAS833/835 BACK PANEL WITH AMI MG9072
<b>Parts</b>	MCP-260-00042-2N	1	STD I/O shield for X9/X10/X11 server MB with EMI Gasket & Mylar
<b>Air Shroud</b>	MCP-310-83504-0B	1	X11 835X Mylar Air Shroud,RoHS
<b>Parts</b>	MCP-450-00003-0N	1	Plastic M.2 holder kit for X11 MB
<b>Manual</b>	MNL-2080-QRG	1	6039P-TXRT Quick Reference Guide
<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-982P-1R	2	1U 980W Redundant Power Supply High Efficiency
<b>FAN 1</b>	FAN-0118L4	3	80 x 80 x 38 mm, 9.5K RPM, 4-pin PWM Fan, Hot
<b>FAN 2</b>	FAN-0125L4	1	80x32 mm 6.7K RPM SC836 Rear Exhaust Fan w/ Housing

Optional Parts List			
	Part Number	Qty	Description
<b>DVD Kit</b>	MCP-220-81502-0N	-	Slim SATA DVD kit for 6038R-TXR and 6048R-TXR
<b>5.25" DVD kit</b>	MCP-220-00006-00	-	5.25" drive rail set
<b>USB2.0/COM port tray</b>	MCP-220-00007-01	-	Black USB2.0 /COM port tray (mount with Slim DVD Kit)
<b>USB3.0/COM port tray</b>	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray (mount with Slim DVD Kit)
<b>Mobile Rack</b>	CSE-M14TQC & CBL-SAST-0699	-	Black SAS3/SATA3 Mobile Rack for 4x 2.5 (mount w/ 5.25" DVD kit); internal mini SAS HD to 4 SATA 12G, 75/75/90/90cm w/75cm SB, S. 30AWG
<b>Storage Control Card and Cable(s)</b>	AOC-S3008L-L8e & 2x CCBL-SAST-0699	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
	AOC-S3008L-L8i & 2x CBL-SAST-0699	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
	AOC-S3108L-H8iR & 2x CBL-SAST-0699	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
<b>CachVault</b>	BTR-TFM8G-LSICVM02	1	Supercap 8GB CV + BKT-BBU-BRACKET-05 or MCP-240-00127-0N x1
	BKT-BBU-BRACKET-05	1	Mounting PCIe Card
<b>AOC</b>	AOC-VROCPREMOD	-	Intel VROC Premium, RAID 0, 1, 5, 10
	AOC-VROCSTNMOD	-	Intel VROC HW key (RSTe) standard upgrade module
	AOC-VROCINTMOD	-	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)
<b>TPM security module (optional, not included)</b>	AOM-TPM-9670V	-	TPM module (Vertical) TPM 2.0
	AOM-TPM-9671V	-	TPM module (Vertical) TPM 1.2.
<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)