

# SuperServer 6039P-TXRT



**Integrated Board**



**Super X11DPX-T**

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

**[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) | [▶ Tested M.2 List](#) | [▶ Manuals](#) | [▶ OS Certification Matrix](#) | [▶ Quick-References Guide](#) | [▶ Drive Options](#)**

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

## Key Features

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

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1. Dual Socket P (LGA 3647) support  
2nd Gen. Intel® Xeon® Scalable  
processors (Cascade Lake/Skylake)‡

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2. 16 DIMMs; up to 4TB 3DS ECC  
DDR4-2933MHz† RDIMM/LRDIMM,  
Supports Intel® Optane™ DCPMM††

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3. 2 PCI-E 3.0 x16 slots,  
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)

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4. 8 Hot-swap 3.5" drive bays, 2 5.25"  
drive bays, 1 slim DVD-ROM drive bay,  
1 FDD bay

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5. 2x 10GBase-T LAN ports with  
Intel X550-AT2

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6. Integrated IPMI 2.0 with KVM and  
Dedicated LAN

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7. 1 PCI-E 3.0 x4 M.2 2280 slot from PCH

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8. 3 middle fans & 1 rear exhaust fan

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9. 980W Redundant Power Supplies  
**Platinum Level (94%)**

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Note: Image above may show a varied configuration of 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)
  - 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)‡,
  - 3 UPI up to 10.4GT/s
  - Support CPU TDP 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 Supermicro
  - †† Cascade Lake only. Contact your Supermicro sales rep for more info.

## On-Board Devices

- Chipset** ■ Intel® C621 chipset

- SATA** ■ SATA3 (6Gbps) with RAID 0, 1, 5, 10

- Network Controllers** ■ Intel® X550-AT2 Dual Port 10GBase-T

- 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

- Serial ATA** ■ 8 SATA3 (6Gbps) ports

- LAN** ■ 2 RJ45 10GBase-T ports
  - 1 RJ45 Dedicated IPMI LAN port

- USB** ■ 2 USB 3.0 ports (rear)
  - 2 USB 2.0 ports (rear)

- Serial Port / Header** ■ 1 COM port

- VGA** ■ 1 VGA port

- DOM** ■ 2 SuperDOM (Disk on Module) ports

- TPM** ■ 1 TPM 2.0 Header

## System BIOS

## Chassis

- Form Factor** ■ 3U Rackmount

- Model** ■ **CSE-835XTQ-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
  - System Reset button

- LEDs** ■ Power status LED
  - Hard drive activity LED
  - Network activity LEDs
  - System information (overheat/UID) LED
  - Power fail LED

## Expansion Slots

- PCI-Express** ■ 2 PCI-E 3.0 x16 slots
  - 2 PCI-E 3.0 x16 slots (or 4 PCI-E 3.0 x8 by MUX)
  - 4 PCI-E 3.0 x8 slots
  - 1 PCI-E 3.0 x4 (in x8 slot)

## Drive Bays

- Hot-swap** ■ 8 Hot-swap 3.5" drive bays

- Others** ■ 2 5.25" drive bays

## Peripheral Bay

- Peripheral Bay** ■ 1 slim DVD-ROM drive

## Backplane

- 1 SAS/SATA backplane

## System Cooling

- Fans** ■ 3 Middle fans
  - 1 Rear exhaust fan

## Power Supply with Power Distributor

850W/980W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus

- AC Input** ■ 100-140 V, 50-60 Hz, 11.5-6.5 Amp
  - 180-240 V, 50-60 Hz, 6.5-4.5 Amp

- DC Output** ■ 4 Amp @ +5V Standby
  - 70 Amp @ +12V (100-140Vac)
  - 81 Amp @ +12V (180-240Vac)

**BIOS Type** ■ AMI UEFI

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#### Management

- Software**
- Intel® Node Manager
  - IPMI 2.0
  - KVM with dedicated LAN
  - NMI
  - SSM, SPM, SUM
  - SuperDoctor® 5
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- Power Configurations**
- ACPI Power Management
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#### PC Health Monitoring

- CPU**
- Monitors for CPU Cores, Chipset Voltages, Memory.
  - 4+1 Phase-switching voltage regulator
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- FAN**
- Fans with tachometer monitoring
  - Status monitor for speed control
  - Pulse Width Modulated (PWM) fan connectors
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- Temperature**
- Monitoring for CPU and chassis environment
  - Thermal Control for fan connectors
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- With Power Distributor**
- +5V: 30 Amp
  - +3.3V: 28 Amp
  - -12V: 0.6 Amp
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#### Certification



Platinum Level

[ [Test Report](#) ]

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#### Operating Environment

- RoHS**
- RoHS Compliant
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- 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)
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# 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 w ith 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 w ith 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 w ith Slim DVD Kit)
<b>USB3.0/COM port tray</b>	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray (mount w ith 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 CBL-SAST-0699	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA; MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
	AOC-S3008L-L8i & 2x CBL-SAST-0699	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E; MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
	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; MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
<b>CacheVault</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>	<a href="#">SFT-OOB-LIC</a> • <a href="#">eStore</a>	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)