

# SuperServer 6039P-TXRT



**Integrated Board**



**Super X11DPX-T**

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

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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**

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. 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)
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%)**

# Specifications

**Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

**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 and Intel® Xeon® Scalable Processors<sup>‡</sup>, 3 UPI up to 10.4GT/s  
■ Support CPU TDP 205W

**Cores** ■ Up to 28 Cores

**Note** <sup>‡</sup> 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<sup>†</sup> RDIMM/LRDIMM  
■ Supports Intel® Optane™ DCPMM<sup>††</sup>

**Memory Type** ■ 2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

**Note** <sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro  
<sup>††</sup> 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

## 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)

**With Power Distributor** ■ +5V: 30 Amp  
■ +3.3V: 28 Amp  
■ -12V: 0.6 Amp

System BIOS

- BIOS Type**
  - AMI UEFI

Management

- Software**
  - Intel® Node Manager
  - IPMI 2.0
  - KVM with dedicated LAN
  - NMI
  - SSM, SPM, SUM
  - SuperDoctor® 5

- Power Configurations**
  - ACPI Power Management

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

Certification



Platinum Level [ Test Report ]

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
<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 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>	<u>QS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>QSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)