

# Server Solutions

## SuperServer 6039P-TXRT



### Features

- Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)
- 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM
- 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)
- 8 Hot-swap 3.5" drive bays, 2 5.25" drive bays, 1 slim DVD-ROM drive bay, 1 FDD bay
- 2x 10GBase-T LAN ports with Intel® X550-AT2
- Integrated IPMI 2.0 with KVM and Dedicated LAN
- 1 PCI-E 3.0 x4 M.2 2280 slot from PCH
- 3 middle fans & 1 rear exhaust fan
- 980W Redundant Power Supplies Platinum Level (94%)

### Motherboard

Model name	Super X11DPX-T
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### Processor/Cache

CPU	<ul style="list-style-type: none"><li>• Dual Socket P (LGA 3647)</li><li>• 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s</li><li>• Support CPU TDP 205W</li></ul>
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	<ul style="list-style-type: none"><li>• 16 DIMM slots</li><li>• Up to 4TB 3DS ECC DDR4-2933MHz</li><li>• RDIMM/LRDIMM</li><li>• Supports Intel® Optane™ DCPMM</li></ul>
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	<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 KVMover-LAN support</li></ul>
Graphics	ASPEED AST2500 BMC

### Input / Output

Serial ATA	8 SATA3 (6Gbps) ports
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	1 COM port
VGA	1 VGA port
DOM	2 SuperDOM (Disk on Module) ports
TPM	1 TPM 2.0 Header

### System BIOS

BIOS Type	AMI UEFI
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### Management

Software	<ul style="list-style-type: none"><li>• Intel® Node Manager</li><li>• IPMI 2.0</li><li>• KVM with dedicated LAN</li><li>• NMI</li><li>• SSM, SPM, SUM</li><li>• SuperDoctor® 5</li></ul>
Power Configurations	ACPI Power Management

## 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	<ul style="list-style-type: none"><li>• Power On/Off button</li><li>• System Reset button</li></ul>
LEDs	<ul style="list-style-type: none"><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>

## Expansion Slots

PCI-Express	<ul style="list-style-type: none"><li>• 2 PCI-E 3.0 x16 slots</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>
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## 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
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## Backplane

Backplane	1 SAS/SATA backplane
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## System Cooling

Fans	<ul style="list-style-type: none"><li>• 3 Middle fans</li><li>• 1 Rear exhaust fan</li></ul>
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## Power Supply with Power Distributor

	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

## Operating Environment

RoHS	RoHS Compliant
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>

## 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>
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>