

# SuperServer 6038R-TXR



Available Colors:

Black



## Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family; QPI up to 9.6GT/s
2. Up to 2TB<sup>†</sup> ECC 3DS LRDIMM , up to DDR4- 2400<sup>†</sup>MHz ; 16x DIMM slots
3. 10x PCI-E 3.0 x8 (FHFL) slots, 1x PCI-E 2.0 x4 (in x8) slot
4. Intel® i350 Dual port Gigabit Ethernet
5. 8x 3.5" Hot-swap drive bays, 2x 5.25" drive bays
6. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
7. 3x middle fans & 1x rear exhaust fan
8. 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-6038R-TXR ■ SuperServer 6038R-TXR (Black)

### Motherboard

Super X10DRX

### Processor/Cache

- CPU ■ Intel® Xeon® processor E5-2600 v4<sup>†</sup>/ v3 family (up to 145W TDP) \*  
 ■ Dual Socket R3 (LGA 2011)

- Cores / Cache ■ Up to 22 Cores<sup>†</sup> / Up to 55MB<sup>†</sup> Cache

- System Bus ■ QPI up to 9.6 GT/s

Note <sup>†</sup> BIOS version 2.0 or above is required

Note \* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

### System Memory

- Memory Capacity ■ 16x 288-pin DDR4 DIMM slots  
 ■ Up to 2TB<sup>†</sup> ECC 3DS LRDIMM, 512GB ECC RDIMM

- Memory Type ■ 2400<sup>†</sup>/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

### 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  
 ■ System Reset button

- LEDs ■ Power status LED  
 ■ Hard drive activity LED  
 ■ 2x Network activity LEDs  
 ■ System information (overheat/UID) LED  
 ■ Power fail LED

### Expansion Slots

- 10x PCI-E 3.0 x8 slots  
 ■ 1x PCI-E 2.0 x4 (in x8) slot

PCI-

(Both CPUs need to be installed for full

DIMM Sizes	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> <li>3DS LRDIMM: 128GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</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> <li>ASPEED AST2400 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
Serial ATA	<ul style="list-style-type: none"> <li>10x SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>5x USB 3.0 ports (2 rear, 2 via header, 1 Type A)</li> <li>4x USB 2.0 ports (2 rear, 2 via headers)</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>2x COM ports (1 rear, 1 Header)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
DOM	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>
TPM	<ul style="list-style-type: none"> <li>1x TPM 1.2 20-pin Header</li> </ul>

## Express

access to PCI-E slots and onboard controllers. See manual block diagram for details.)

## Drive Bays

- |          |   |
|----------|---|
| Hot-swap | <ul style="list-style-type: none"> <li>8x 3.5" Hot-swap drive bays</li> </ul> |
| Others   | <ul style="list-style-type: none"> <li>2x 5.25" drive bays</li> </ul>         |

## Peripheral Bay

- |                |  |
|----------------|--|
| Peripheral Bay | <ul style="list-style-type: none"> <li>1x slim DVD-ROM drive (optional)</li> </ul> |
|----------------|--|

## Backplane

- |           |  |
|-----------|--|
| Backplane | <ul style="list-style-type: none"> <li>1x SAS2 / SATA backplane</li> </ul> |
|-----------|--|

## System Cooling

- |      |   |
|------|---|
| Fans | <ul style="list-style-type: none"> <li>3x 8cm 7K RPM, Middle fans</li> <li>1x 8cm 6.7K RPM, Rear Exhaust fan</li> </ul> |
|------|---|

## 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  
[ [Test Report](#) ]

## System BIOS

- |               |  |
|---------------|--|
| BIOS Type     | <ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>   |
| BIOS Features | <ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>BIOS rescue hot keys</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul> |

## Operating Environment / Compliance

- |                     |   |
|---------------------|---|
| 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 to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°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-X10DRX	1	Super X10DRX Motherboard
	CSE-835XTQ-R982B	1	3U Chassis
<b>Backplane</b>	CSE-SAS-833TQ	1	SAS833 BACK PANEL WITH AMI MG9072
<b>Cable 1</b>	CBL-0483L	8	29cm 30AWG SATA S-S cable
<b>Cable 2</b>	CBL-CDAT-0660	1	8 pin to 8 pin round SGPIO cable, 27cm, 28AWG, pinout 1-1,RoHS/REACH
<b>Cable 3</b>	CBL-CDAT-0661	1	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Heatsink / Retention</b>	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-982P-1R	2	1U 980W Redundant Power Supply High Efficiency

### 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>Onsite Service Program</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
<b>Onsite Service Program</b>	<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)