

SuperServer 6038R-TXR



Integrated Board



Super X10DRX

Available Colors:

Black



► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ► [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

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 16x DIMM slots
3. 10x PCI-E 3.0 x8 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%)**

Specifications

Product SKUs

- SYS-6038R-TXR**
- SuperServer 6038R-TXR (**Black**)

Motherboard

Super X10DRX

Processor/Cache

- CPU**
- Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 145W TDP) *
 - Dual Socket R3 (LGA 2011)
- Cores / Cache**
- Up to **22 Cores**[†] / Up to **55MB**[†] Cache
- System Bus**
- QPI up to 9.6 GT/s
- Note**
- [†] 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[†] ECC 3DS LRDIMM, 512GB ECC RDIMM
- Memory Type**
- 2400**[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
- DIMM Sizes**
- RDIMM: 32GB, 16GB, 8GB, 4GB
 - LRDIMM: 64GB, 32GB
 - 3DS LRDIMM: 128GB
- Memory Voltage**
- 1.2 V
- Error Detection**
- Corrects single-bit errors

On-Board Devices

- Chipset**
- Intel® C612 chipset
- SATA**
- SATA3 (6Gbps) with RAID 0, 1, 5, 10
- IPMI**
- Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 - ASPEED AST2400 BMC
- Network Controllers**
- Intel® i350 Dual Port Gigabit Ethernet
 - Virtual Machine Device Queues reduce I/O overhead
 - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
 - 1x Realtek RTL8201N PHY (dedicated IPMI)
- Graphics**
- ASPEED AST2400 BMC

Input / Output

- Serial ATA**
- 10x SATA3 (6Gbps) ports
- LAN**
- 2x RJ45 Gigabit Ethernet LAN ports
 - 1x RJ45 Dedicated IPMI LAN port

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

Expansion Slots

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

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)

Drive Bays

- Hot-swap**
- 8x 3.5" Hot-swap drive bays
- Others**
- 2x 5.25" drive bays

Peripheral Bay

- Peripheral Bay**
- 1x slim DVD-ROM drive (optional)

Backplane

- 1x SAS2 / SATA backplane

System Cooling

- Fans**
- 3x 8cm 7K RPM, Middle fans
 - 1x 8cm 6.7K RPM, 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)

USB	■ 5x USB 3.0 ports (2 rear, 2 via header, 1 Type A) ■ 4x USB 2.0 ports (2 rear, 2 via headers)
Serial Port / Header	■ 2x COM ports (1 rear, 1 Header)
VGA	■ 1x VGA port
DOM	■ 2x SuperDOM (Disk on Module) ports
TPM	■ 1x TPM 1.2 20-pin Header

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

Platinum Level
[[Test Report](#)]

System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	■ Plug and Play (PnP) ■ PCI 2.3 ■ ACPI 1.0 / 2.0 / 3.0 / 4.0 ■ BIOS rescue hot keys ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI 2.3.1

Operating Environment / Compliance

RoHS	■ RoHS Compliant
Environmental Spec.	■ Operating Temperature: 10°C to 35°C (50°F to 95°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°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
Motherboard / Chassis	MBD-X10DRX	1	Super X10DRX Motherboard
	CSE-835XTQ-R982B	1	3U Chassis
Backplane	CSE-SAS-833TQ	1	SAS833/835 BACK PANEL WITH AMI MG9072
Cable 1	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Cable 2	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
Cable 3	CBL-0483L	8	SATA,INT,ROUND,ST-ST,29CM,30AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-982P-1R	2	1U 980W Redundant Power Supply High Efficiency

Optional Parts List

	Part Number	Qty	Description
DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD kit for 6038R-TXR and 6048R-TXR
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-OOB-LIC</u> • <i>eStore</i>	1	OOB Management Package (per node license)
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)