

SuperServer 6048R-TXR



Integrated Board



Super X10DRX

Available Colors:

Black



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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

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. 5x 3.5" Hot-swap HDD Bays
6. 3x 5.25" Peripheral Drive Bays
7. 600W Redundant Power Supplies
Platinum Level (94%)

Specifications

Product SKUs

SYS-6048R-TXR ■ SuperServer 6048R-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, 512 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

USB ■ 5x USB 3.0 ports (2 rear, 2 via header, 1 Type A)
■ 4x USB 2.0 ports (2 rear, 2 via headers)

Chassis

Form Factor ■ 4U Rackmountable / Tower
■ Optional Rackmount Kit

Model ■ **CSE-842XTQ-R606B**

Dimensions

Width ■ 17.2" (437mm)

Height ■ 7.0" (178mm)

Depth ■ 20.68" (525mm)

Gross Weight ■ 49 lbs (22.2kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

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

Ports ■ 2x USB 2.0 ports
■ 1x COM port

Drive Bays

Hot-swap ■ 5x 3.5" Hot-swap Drive Trays

90° Rotatable ■ 3x 5.25" Peripheral Drive Trays

Peripheral Bay

DVD-ROM ■ 1x slim DVD-ROM drive (optional)

SAS / SATA Backplane

SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling

Fans ■ 1x 92x38mm 4-pin PWM front intake fan
■ 2x 80x38mm 4-pin PWM rear exhaust fans

Power Supply with Power Distributor

600W Redundant Power Supplies with PMBus

Total Output Power ■ 600W

Dimension (W x H x L) ■ 54.5 x 40 x 220 mm

Input ■ 100-240V, 50-60Hz, 7.5-3.5A

+12V ■ Max: 50A / Min: 0.5A

+5Vsb ■ Max: 3A / Min: 0A

Output Type ■ Gold Finger Connector Mating with Molex 45984-4343


Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x COM ports (1 rear, 1 Header)
DOM	<ul style="list-style-type: none"> 2x SuperDOM (Disk on Module) ports
TPM	<ul style="list-style-type: none"> 1x TPM 1.2 20-pin Header

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 10x PCI-E 3.0 x8 slots 1x PCI-E 2.0 x4 (in x8) slot <p>(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)</p>
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System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> 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

Certification	 Platinum Certified [Test Report]
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 6-Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total of eight fan headers supporting up to 8 fans 8x fans with tachometer status monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x fan connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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)

Список деталей

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRX	1	Super X10DRX Motherboard
	CSE-842XTQ-R606B	1	4U Chassis
Backplane	BPN-SAS-842TQ	1	5-port 4U SC842 rackmount chassis SAS backplane (w/ enclosure management), support up to 5x 3.5-inch SAS/SATA HDD
Cable 1	CBL-SAST-0639	5	SATA,INT,ROUND,ST-RA,31CM,30AWG
Cable 2	CBL-CDAT-0660	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,27CM,28AWG
Cable 3	CBL-CDAT-0661	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,40CM,28AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heatsink / Retention	SNK-P0048AP4	2	2U Active CPU Heat Sink for Intel R2/R3/B2/B3 and AMD C32
Power Supply	PWS-606P-1R	2	1U 600W Redundant Short Depth High Efficiency Power Supply

Optional Parts List

	Part Number	Qty	Description
DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD kit for 6038R-TXR and 6048R-TXR
Rail	MCP-290-00058-0N	-	Quick-release outer rail for 4U (19"~26.6")
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

