

SuperServer 8048B-TR4FT (Complete System Only)



Integrated Board



Super X10QBi

Key Features

1. Quad socket R1 (LGA 2011) supports Intel® Xeon® processor E7-8800 v3 / E7-4800 v3 family (18-Core), w/ QPI up to 9.6 GT/s
2. Up to 6TB DDR4 1866MHz ECC RDIMM/ LRDIMMs; 96x DIMM slots (8x memory module boards: X10QBi-MEM2)
3. Up to 11x PCI-E 3.0 slots (4 x16, 7 x8)
4. I/O ports via Add-on Card:
2x 10Gb LAN, 1x Dedicated LAN for IPMI Remote Management, 1x VGA
5. Up to 24x 3.5" Hot-swap SAS2 HDD, 4x 2.5" Fixed internal SATA drive bays
6. 4x 92mm Hot-swap cooling fans, 3x 80mm Hot-swap rear exhaust fans, 2x 80mm rear exhaust fans (option)
7. 1620W Redundant (N+1) Power Supplies, Platinum Level (94%)

Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

96/64/32 DIMMs are the recommended memory population configurations for the best performance.

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-8048B-TR4FT	<ul style="list-style-type: none"> SuperServer 8048B-TR4FT (Black)
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Motherboard

Super X10QBi

Processor/Cache

CPU	<ul style="list-style-type: none"> Intel® Xeon® processor E7-8800 v3 / E7-4800 v3 family (up to 18 Cores and 165W TDP) Quad Socket R1 (LGA 2011)
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Cache	<ul style="list-style-type: none"> Up to 45 MB
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System Bus	<ul style="list-style-type: none"> QPI up to 9.6 GT/s
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System Memory

Chassis

Form Factor	<ul style="list-style-type: none"> 4U Rackmountable Rackmount Kit: Comes with the system
Model	<ul style="list-style-type: none"> CSE-848XA-R3240B

Dimensions and Weight

Height	<ul style="list-style-type: none"> 7.0" (178mm)
Width	<ul style="list-style-type: none"> 17.2" (437mm)
Depth	<ul style="list-style-type: none"> 32.1" (815mm)
Package	<ul style="list-style-type: none"> 15" (H) x 27" (W) x 43.7" (D)
Weight	<ul style="list-style-type: none"> Net Weight: 74.5 lbs (33.79 kg) Gross Weight: 115 lbs (52.16 kg)
Available Colors	<ul style="list-style-type: none"> Black

Drive Bays

- 24x 3.5" drive bays
- 4x 2.5" Fixed internal drive bays

Memory Capacity	<ul style="list-style-type: none"> 96x 288-pin DDR4 DIMM slots Supports up to 6TB DDR4 ECC RDIMM/LRDIMM in 96 DIMM slots
Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602J chipset
AHCI SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1 SATA2 (3Gbps) with RAID 0, 1, 5, 10
Network Controllers (via AOM)	<ul style="list-style-type: none"> Intel® X540 Dual Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
IPMI (via AOM)	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED 2400
Graphics	<ul style="list-style-type: none"> ASPEED 2400

Input / Output

AHCI SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T ports on AOM 1x dedicated LAN port for IPMI on AOM
USB	<ul style="list-style-type: none"> 2x USB 2.0 ports
Serial Port / Header	<ul style="list-style-type: none"> 2x Fast UART 16550 ports: 1 rear and 1 header
DOM	<ul style="list-style-type: none"> 1x DOM (Disk on Module) power connector

System BIOS

BIOS Type	<ul style="list-style-type: none"> 16MB SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support

Hot-swap	<ul style="list-style-type: none"> BPN-SAS-846A direct attached backplane, system supports up to 24 HDDs by using selected RAID/HBA card and default HDD connection is onboard C602J chipset 2 SATA3 + 4 SATA2
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Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 11x PCI-E 3.0 slots w/ 48 memory slots (4x PCI-E 3.0 x16 and 7x PCI-E 3.0 x8) 8x PCI-E 3.0 slots w/ 96 memory slots (4x PCI-E 3.0 x16 and 4x PCI-E 3.0 x8)
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Backplane

SAS/SATA HDD Backplane

System Cooling

Fans	<ul style="list-style-type: none"> 4x 92mm RPM Hot-Swappable Cooling Fans 3x 80mm RPM Hot-Swappable Rear Exhaust Fans 2x 80mm Rear Exhaust Fans (optional)
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Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-120V, 12-10A, 50-60Hz 1200W Output @ 120-140V, 12-10A, 50-60Hz 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/84A; +5Vsb/4A 1200W: +12V/100A; +5Vsb/4A 1620W: +12V/150A; +5Vsb/4A

Certification	  Platinum Certified [Test Report]
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.2V, 1.5V, +3.3V, +12V, (+3V, 1.0V, 1.2V, 1.8V, 1.1V) Standby, VBAT, Memory, Chipset Voltages. 4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V
FAN	<ul style="list-style-type: none"> 4-pin fan headers with tachometer status monitoring Low noise fan speed control mode
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and system environment Thermal Control for 9x fan connectors
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection

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)

Parts List - (Items Included)

	Part Number	Qty	Description
Chassis	CSE-848XA-R3240B	1	CSE-848XA-R3240B 4U Chassis with 24x HDD trays
Motherboard	X10QBi	1	Super X10QBi Motherboard
Memory Module	X10QBi-MEM2	8	Supports 12x DIMMs / module (up to 64GB DDR4 ECC LRDIMM / slot)
Add-on Card / Module	AOM-X10QBi-A	1	MB -AOM-X10QBi-A
Air Shroud	MCP-310-41804-0B	1	Mylar CPU air shroud for SC418X (X10QBi),PBF
Backplane	BPN-SAS-846A	1	4U 6Gbps Backplane Supports 24x3.5" SAS/SATA HDD/SSD w/ iPass Connectors
Cable 1	CBL-0294L-01	2	Cross-over lpass to 4 SATA w/SB. S. 70cm. 26AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Heatsink / Retention	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K62P-1R	4	1620W REDUNDANT POWER MODULE

Optional Parts List

	Part Number	Qty	Description
Drive Option 1	AOC-S2208L-H8IR (2208) x1 + CBL-0394L x2		For 8 SAS2 (LSI 2208) HDD
Drive Option 2	AOC-72405-ADP x1 + CBL-SAST-0507-01 x6		For 24 SAS2 (Adaptec 72405) HDD
Drive Option 3	AOC-S2308L-L8I (2 ports) x1 + CBL-0394L x2		For 8 SAS2 (LSI 2308) HDD
Air Shroud	MCP-310-41805-0B	1	Air shroud for 4 memory module configuration (to utilize all PCI-E slots)
Rear Fan Kit	MCP-320-00046-0N-KIT	-	Rear fan kit (8.2K RPM fan) when use GPU card (1 fan kit for 2 GPU)
GPU Power Cable	CBL-PWEX-0581	-	1 GPU Power Cable for 1 GPU (Recommend to pre-install GPU power cable in Supermicro)
Onsite Service Program	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)