

SuperServer 8048B-TRFT (Complete System Only)



Integrated Board



Super X10QBi

**Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |**

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 4 CPUs, 32 DIMMs, 1 HDD installed).

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

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Manuals](#)
▶ [OS Certification Matrix](#) ▶ [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. Quad socket R1 (LGA 2011) supports Intel® Xeon® processor E7-8800 v4/v3, E7-4800 v4/v3 family (up to 24-Core)
2. Up to 6TB DDR3 1600MHz ECC RDIMMs and LRDIMMs; 96x DIMM slots
3. Up to 11x PCI-E 3.0 slots (4 x16, 7 x8)
4. 24x 3.5" Hot-swap SAS2/SATA3 HDD
5. 4x 92mm Hot-swap cooling fans, 3x 80mm Hot-swap rear exhaust fans, 2x 80mm rear exhaust fans (option)
6. 1620W Redundant (N+1) Power Supplies, **Platinum Level (94%)**

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

SYS-8048B-TRFT ■ SuperServer 8048B-TRFT (Black)

Motherboard

Super X10QBi

Processor/Cache

CPU ■ Intel® Xeon® processor E7-8800 v4/v3, E7-4800 v4/v3 family (up to 24 Cores and 165W TDP)
■ Quad Socket R1 (LGA 2011)

Cache ■ Up to 60 MB

System Bus ■ QPI up to 9.6 GT/s

Note: ■ E7-8800/4800 v2 (using MB-X10QBI-MEM1 Rev 1.01 or above)
■ E7-8800/4800 v4/v3 (using MB-X10QBI-MEM1 Rev 2.0 or above)

System Memory

Memory Capacity ■ 96x 240-pin DDR3 DIMM slots
■ Supports up to 6TB DDR3 ECC Registered memory (RDIMM) and LRDIMM in 96 DIMM slots

Memory Type ■ 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes ■ 64GB, 32GB, 16GB, 8GB, 4GB

Memory Voltage ■ 1.5 V, 1.35 V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C602J chipset

AHCI SATA ■ SATA3 (6Gbps) with RAID 0, 1
■ SATA2 (3Gbps) with RAID 0, 1, 5, 10

Network Controllers (via AOM) ■ 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) ■ 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 ■ ASPEED 2400

Input / Output

AHCI SATA ■ 2x SATA3 (6Gbps) ports
■ 4x SATA2 (3Gbps) ports

LAN ■ 2x RJ45 10GBase-T ports on AOM
■ 1x dedicated LAN port for IPMI on AOM

Chassis

Form Factor ■ 4U Rackmountable
■ Rackmount Kit: Comes with the system

Model ■ CSE-848XA-R3240B

Dimensions and Weight

Height ■ 7.0" (178mm)

Width ■ 17.2" (437mm)

Depth ■ 32.1" (815mm)

Package ■ 15" (H) x 27" (W) x 43.7" (D)

Weight ■ Net Weight: 74.5 lbs (33.79 kg)
■ Gross Weight: 115 lbs (52.16 kg)

Available Colors ■ Black

Drive Bays

Hot-swap ■ 24x 3.5" Hard drive bays.
■ 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

Expansion Slots

PCI-Express ■ 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)

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans ■ 4x 92mm RPM Hot-Swappable Cooling Fans
■ 3x 80mm RPM Hot-Swappable Rear Exhaust Fans
■ 2x 80mm Rear Exhaust Fans (optional)

Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input ■ 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 ■ 1000W: +12V/84A; +5Vsb/4A
■ 1200W: +12V/100A; +5Vsb/4A
■ 1620W: +12V/150A; +5Vsb/4A

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"> 1 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

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)

Список деталей

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-MEM1	8	Supports 12x DIMMs / module (up to 64GB DDR3 ECC RDIMM / slot)
Add-on Module (Proprietary)	AOM-X10QBi-A	1	Add-on Module support VGA, dual 10GBase-T ports, and Dedicated IPMI 2.0 LAN port
Air Shroud	MCP-310-41804-0B	1	Mylar CPU air shroud for SC418X (X10QBi),PBF
Backplane	BPN-SAS-846A	1	24-port 4U SAS 6Gbps direct-attached backplane, support up to 24x 3.5-inch SAS2/SATA3 HDD/SSD
Cable 1	CBL-0294L-01	2	MINI SAS-4 SATA,INT,RF,cross over,70CM,70CM SB,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 (Broadcom 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 (Broadcom 2308) HDD
Air Shroud	MCP-310-41805-0B	-	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
GPU Power Cable	CBL-PWEX-0581	-	1 GPU Power Cable for 1 GPU (Recommend to pre-install GPU power cable in Supermicro)
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)