

SuperServer 4048B-TR4FT (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 12TB DDR4 (128GB 3DS LRDIMM); 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. 24x 2.5" Hot-swap SAS3/SATA3 HDD or SSD (selected RAID/HBA cards);
48x 2.5" Hot-swap HDD/SSD optional
6. 4x 9cm + 3x 8cm Heavy-duty Fans
7. 1620W Redundant (N+1) Power Supplies, **Platinum Level (94%)**

Specifications

Product SKUs

- SYS-4048B-TR4FT**
 - SuperServer 4048B-TR4FT (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

System Memory

- Memory Capacity**
 - 96x 288-pin DDR4 DIMM slots
 - Supports up to 12TB DDR4 ECC 3DS LRDIMM in 96 DIMM slots

- Memory Type**
 - 1866/1600/1333/1066/800MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs

- DIMM Sizes**
 - 128GB, 64GB, 32GB, 16GB, 8GB, 4GB

- Memory Voltage**
 - 1.2 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

- USB**
 - 2x USB 2.0 ports

- Serial Port / Header**
 - 2x Fast UART 16550 ports: 1 rear and 1 header

Chassis

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

- Model**
 - CSE-418XA-R3240B

Dimensions and Weight

- Height**
 - 7.0" (178mm)

- Width**
 - 17.2" (437mm)

- Depth**
 - 31.3" (795mm)

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

- Available Colors**
 - Black

Drive Bays

- Hot-swap**
 - 24x 2.5" Hard drive bays (default)*
 - 48x 2.5" Hard drive bays (optional)
 - * BPN-SAS3-216A 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 Fan
 - 2x 80mm Rear Exhaust Fans (optional)

- Shrouds**
 - 1x Air Shroud (MCP-310-41804-0B)

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

DOM	<ul style="list-style-type: none"> 1x DOM (Disk on Module) power connector
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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](#)]

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-418XA-R3240B	1	CSE-418XA-R3240B 4U Chassis with 48x 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 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-SAS3-216A	1	24-port 2U SAS3 12Gbps direct-attached backplane, support up to 24x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-SAST-0591	2	MINI SAS HD-4 SATA,6G,INT,RF,Cross Over,75CM,75CM SB,30AWG
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
2.5" HDD Tray	MCP-220-00047-0B	-	Black gen 3rd hot-swap 2.5" HDD tray
Drive Option 1	AOC-S2208L-H8IR (2208) x1 + CBL-SAST-0507-01 x2		For 8 SAS2 (Broadcom 2208) HDD
Drive Option 2	AOC-S3108L-H8IR (3108) x1 + CBL-SAST-0531 x2		For 8 SAS3 (Broadcom 3108) HDD
Drive Option 3	AOC-72405-ADP x1 + CBL-SAST-0531 x6		For 24 SAS2 (Adaptec 72405) HDD
Drive Option 4	AOC-S3008L-L8I (3008, 2 ports) x1 + CBL-SAST-0531 x2		For 8 SAS3 (Broadcom 3008) HDD
Drive Option 5	AOC-S2308L-L8I (2308, 2 ports) x1 + CBL-SAST-0507-01 x2		For 8 SAS2 (Broadcom 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)
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)