

SuperServer 8048B-TR3F



Available Colors: Black

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; E7-8800 v2 / 4800 v2 family (15-Core), w/ QPI up to 8 GT/s
2. Up to 2TB DDR3 (64GB LRDIMM), up to 1600MHz; 32x DIMM slots
3. 2x PCI-E 3.0 x16 FH slot; 2x PCI-E 3.0 x8 FH slot
4. Intel® i350 Dual port GbE LAN
5. I/O ports: 2x GbE LAN, 1x Dedicated LAN for IPMI Remote Management, 1x VGA, 1x COM port, 3x USB 2.0
6. 5x 3.5" Hot-swap SATA Drive Bays
7. 3x 9cm + 3x 8cm Heavy Duty fans with speed control
8. 1400W Redundant Digital PS Platinum Level (95%)

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-TR3F	<ul style="list-style-type: none"> SuperServer 8048B-TR3F (Black)
----------------	--

Motherboard

Super X10QBL

Processor/Cache

CPU	<ul style="list-style-type: none"> Intel® Xeon® processor E7-8800 v3* / E7-4800 v3* / E7-8800 v2 / E7-4800 v2 family (up to 18 Cores and 165W TDP) Quad Socket R1 (LGA 2011)
-----	--

Cache	<ul style="list-style-type: none"> Up to 45 MB
-------	---

System Bus	<ul style="list-style-type: none"> QPI up to 9.6 GT/s
------------	--

Note:	<ul style="list-style-type: none"> E7-48XX/88XX v3 family requires Rev. 2.0x or above mother board w/ Jordan Creek II
-------	--

System Memory

Memory	<ul style="list-style-type: none"> 32x 240-pin DDR3 DIMM slots Supports up to 2TB DDR3, ECC
--------	---

Chassis

Form Factor	<ul style="list-style-type: none"> 4U Rackmount/Tower
Model	<ul style="list-style-type: none"> CSE-748TQ-R1K43B

Dimensions and Weight

Height	<ul style="list-style-type: none"> 18.2" (462mm)
Width	<ul style="list-style-type: none"> 7.0" (178mm)
Depth	<ul style="list-style-type: none"> 28.4" (721mm)
Weight	<ul style="list-style-type: none"> Net Weight: 65.5 lbs (29.7 kg) Gross Weight: 86.0 lbs (39.0 kg)
Available Colors	<ul style="list-style-type: none"> Black

Drive Bays

Hot-swap	<ul style="list-style-type: none"> 5x 3.5" Hot-swap Drive Bays
----------	---

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 2x PCI-E 3.0 x16 Full-height slot 2x PCI-E 3.0 x8 Full-height slot
-------------	---

Backplane

SAS/SATA HDD Backplane

Capacity	Registered memory (RDIMM/LRDIMM) in 32 DIMM slots
Memory Type	<ul style="list-style-type: none"> 1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-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"> 1.5 V, 1.35 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
SATA	<ul style="list-style-type: none"> SATA2 (3Gbps) with RAID 0, 1, 5, 10 SATA3 (6Gbps) with RAID 0, 1
IPMI	<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 AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual port GbE LAN Virtual Machine Device Queues reduce I/O overhead Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201F PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED 2400

Input / Output

SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x dedicated LAN port for IPMI on AOM
USB	<ul style="list-style-type: none"> 3x USB 2.0 rear 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"> 2x DOM (Disk on Module) power connectors

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

System Cooling

Fans	<ul style="list-style-type: none"> 3x 9cm Heavy Duty fans with speed controlCooling Fans 3x 8cm Heavy Duty fans with speed controlCooling Fans
Shrouds	<ul style="list-style-type: none"> 1x Air Shroud (MCP-310-74806-0B)

Power Supply

Redundant 1400W High-efficiency AC power supply with Digital Switching Control & PMBus 1.2	
AC Voltage	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 15 Amp max
+12V	<ul style="list-style-type: none"> 100 Amp/115 Vac 117 Amp/230 Vac
With Power Distributor	<ul style="list-style-type: none"> +5V: 30 Amp +3.3V: 25 Amp -12V: 0.6 Amp

Certification



[Platinum Certified](#)

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

Parts List - (Items Included)

	Part Number	Qty	Description
Chassis	CSE-748TQ-R1K43B	1	CSE-748TQ-R1K43B Chassis
Motherboard	X10QBL	1	Super X10QBL Motherboard
Air Shroud	MCP-310-74806-0B	1	Mylar air shroud for SC748 (X10QBL-CT),RoHS/REACH
Backplane	CSE-SAS-M35TQ	1	M35 SAS BACKPLANE W/AMI MG9072
Cable 1	CBL-0157L-01	2	8 pin to 8 pin ribbon SGPIO cable with tube, 60cm, PBF
Cable 2	CBL-0044L	5	SATA CABLE 57.5CM FLAT S-S PBF. 26AWG flat
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Parts	MCP-260-00088-0N	1	Standard I/O shield for X10QBL-CT with EMI Gasket,RoHS/REACH
Heatsink / Retention	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K43F-1R	2	1400W redundant digital power supply

Optional Parts List

	Part Number	Qty	Description
Mobile Rack	CSE-M35TQ	1	SAS2 5x 3.5" HDD
	CSE-M28SACB-OEM	1	SAS3 8x 2.5" HDD
Tray	MCP-220-00010-01	1	Black 5.25" tray
Mounting Rails	MCP-290-00059-0B	1	26.5" to 36.4" rail set + handles, Quick Release for 4U 17.2"W tower
	MCP-290-00058-0N	1	Short rail set, quick/quick, optional for 2~4U 17.2" W
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)