SuperServer 8048B-TR4F

Integrated Board

Super X10QBL-4

Views: | Angled View | Front View | Rear View |

> ▶ **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 4TB DDR4 (128GB 3DS LRDIMM), up to 1866MHz; 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%)**

Specifications

Product SKUs

SYS-8048B-TR4F • SuperServer 8048B-TR4F (**Black**)

Motherboard

Super X10QBL-4

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	• 32x 288-pin DDR4 DIMM slots • Supports up to 4TB DDR4 ECC 3DS LRDIMM in 32 DIMM slots
Memory Type	• 1866/1600MHz 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

On-Board Devices

Chipset	• Intel® C602J chipset
SATA	• SATA2 (3Gbps) with RAID 0, 1, 5, 10 • SATA3 (6Gbps) with RAID 0, 1
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 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	• ASPEED 2400

Input / Output

SATA	• 2x SATA3 (6Gbps) ports • 4x SATA2 (3Gbps) ports
LAN	• 2x RJ45 Gigabit Ethernet LAN ports • 1x dedicated LAN port for IPMI on AOM
USB	• 3x USB 2.0 rear ports
Serial Port / Header	• 2x Fast UART 16550 ports: 1 rear and 1 header
DOM	• 2x DOM (Disk on Module) power connectors

System BIOS

Chassis

Form Factor	• 4U Rackmount/Tower
Model	• **CSE-748TQ-R1K43B**

Dimensions and Weight

Height	• 18.2" (462mm)
Width	• 7.0" (178mm)
Depth	• 28.4" (721mm)
Weight	• Net Weight: 65.5 lbs (29.7 kg) • Gross Weight: 86.0 lbs (39.0 kg)
Available Colors	• Black

Drive Bays

Hot-swap	• 5x 3.5" Hot-swap Drive Bays

Expansion Slots

PCI-Express	• 2x PCI-E 3.0 x16 Full-heigh slot • 2x PCI-E 3.0 x8 Full-heigh slot

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans	• 3x 9cm Heavy Duty fans with speed controlCooling Fans • 3x 8cm Heavy Duty fans with speed controlCooling Fans
Shrouds	• 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	• 100-240 V, 50-60 Hz, 15 Amp max
+12V	• 100 Amp/115 Vac • 117 Amp/230 Vac
With Power Distributor	• +5V: 30 Amp • +3.3V: 25 Amp • -12V: 0.6 Amp
Certification	80 PLUS PLATINUM **Platinum Certified**

PC Health Monitoring

CPU	• 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	• 4-pin fan headers with tachometer status monitoring • Low noise fan speed control mode

BIOS Type	- 128MB SPI Flash EEPROM with AMI® BIOS
BIOS Features	- Plug and Play (PnP) - PCI 2.2 - ACPI up to 3.0 - USB Keyboard support

Temperature	- Monitoring for CPU and system environment - Thermal Control for 9x fan connectors
Other Features	- Chassis intrusion detection

Operating Environment / Compliance

RoHS	- RoHS Compliant

Environmental Spec.	- 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-748TQ-R1K43B	1	CSE-748TQ-R1K43B Chassis
Motherboard	X10QBL-4	1	Super X10QBL-4 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-0044L	5	SATA,INT,FLAT,57.7CM,26AWG
Cable 2	CBL-0157L-01	2	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,60CM,28AWG
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 CSE-M28SACB-OEM	1 1	SAS2 5x 3.5" HDD SAS3 8x 2.5" HDD
Tray	MCP-220-00080-0B	-	Black hotswap 3.5 to 2.5 HDD tray
Tray	MCP-220-00010-01	1	Black 5.25" tray
Mounting Rails	MCP-290-00059-0B MCP-290-00058-0N	1 1	26.5" to 36.4" rail set + handles, Quick Release for 4U 17.2"W tower Short rail set, quick/quick, optional for 2~4U 17.2" W
Software	SFT-OOB-LIC • _eStore_	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)