

SuperServer 8048B-C0R3FT



Integrated Board



Super X10QBL-CT

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

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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 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® X540 Dual port 10GBase-T
5. I/O ports: 2x 10GBase-T, 1x Dedicated LAN for IPMI Remote Management, 1x VGA, 1x COM port, 3x USB 2.0
6. 5x 3.5" Hot-swap SAS2 Drive Bays;
SAS2 via onboard Broadcom 3008
7. 3x 9cm + 3x 8cm Heavy Duty fans with speed control
8. 1400W Redundant Digital PS
Platinum Level (95%)

Specifications

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

SYS-8048B-C0R3FT ■ SuperServer 8048B-C0R3FT (Black)

Motherboard

Super X10QBL-CT

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: ■ E7-48XX/88XX v4/v3 family or above requires Rev. 2.0x or above motherboard w/ Jordan Creek II

System Memory

Memory Capacity ■ 32x 240-pin DDR3 DIMM slots
■ Supports up to 2TB DDR3, ECC Registered memory (RDIMM/LRDIMM) in 32 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

SAS ■ SAS2 (6Gbps) via Broadcom 3008 controller

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® 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 RTL8201F PHY (dedicated IPMI)

Graphics ■ ASPEED 2400

Input / Output

SAS ■ 8x SAS2 ports (6Gbps)

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-height slot
■ 2x PCI-E 3.0 x8 Full-height 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



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

LAN	<ul style="list-style-type: none">■ 2x RJ45 10GBase-T 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

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-748TQ-R1K43B	1	CSE-748TQ-R1K43B Chassis
Motherboard	X10QBL-CT	1	Super X10QBL-CT 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-SAST-0616	2	MINI SAS HD-4 SATA,6G,INT,50CM,50CM SB,30AWG
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 • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)