

# SuperServer 8048B-C0R4FT



## 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
2. Up to 2TB DDR4 (64GB 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® 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 LSI 3008
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-COR4FT	<ul style="list-style-type: none"> <li>▪ SuperServer 8048B-C0R4FT (Black)</li> </ul>
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### Motherboard

Super X10QBL-4CT

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>▪ Intel® Xeon® processor E7-8800 v3 / E7-4800 v3 family (up to 18 Cores and 165W TDP)</li> <li>▪ Quad Socket R1 (LGA 2011)</li> </ul>
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Cache	<ul style="list-style-type: none"> <li>▪ Up to 45 MB</li> </ul>
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System Bus	<ul style="list-style-type: none"> <li>▪ QPI up to 9.6 GT/s</li> </ul>
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### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>▪ 32x 288-pin DDR4 DIMM slots</li> <li>▪ Supports up to 2TB DDR4 ECC LRDIMM in 32 DIMM slots</li> </ul>
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Memory Type	<ul style="list-style-type: none"> <li>▪ 1866/1600MHz ECC DDR3 SDRAM 72-bit, 288-pin gold-plated DIMMs</li> </ul>
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DIMM Sizes	<ul style="list-style-type: none"> <li>▪ 64GB, 32GB, 16GB, 8GB, 4GB</li> </ul>
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### Chassis

Form Factor	<ul style="list-style-type: none"> <li>▪ 4U Rackmount/Tower</li> </ul>
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Model	<ul style="list-style-type: none"> <li>▪ <a href="#">CSE-748TQ-R1K43B</a></li> </ul>
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### Dimensions and Weight

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

Hot-swap	<ul style="list-style-type: none"> <li>▪ 5x 3.5" Hot-swap Drive Bays</li> </ul>
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### Expansion Slots

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

SAS/SATA HDD Backplane

Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors

#### On-Board Devices

Chipset	▪ Intel® C602J chipset
SAS	▪ SAS2 (6Gbps) via LSI® 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)
LAN	▪ 2x RJ45 10GBase-T 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


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

#### 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	 <a href="#">Platinum Certified</a>
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#### 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
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)

### Parts List

#### Parts List - (Items Included)

	Part Number	Qty	Description
Chassis	CSE-748TQ-R1K43B	1	CSE-748TQ-R1K43B Chassis
Motherboard	X10QBL-4CT	1	Super X10QBL-4CT 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	internal mini SAS HD to 4 SATA 50CM, S, w/50cm SB,HF,RoHS/REACH,PBF
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

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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-220-00080-0B	-	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	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)