

SuperServer 8048B-TR4F



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® 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-TR4F	▪ SuperServer 8048B-TR4F (Black)
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Motherboard

Super X10QBL-4

Processor/Cache

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

System Bus	▪ QPI up to 9.6 GT/s
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System Memory

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

Chassis

Form Factor	▪ 4U Rackmount/Tower
Model	▪ <u>CSE-748TQ-R1K43B</u>

Dimensions and Weight

Height	▪ 18.2" (462mm)
Width	▪ 7.0" (178mm)
Depth	▪ 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	▪ Black

Drive Bays

Hot-swap	▪ 5x 3.5" Hot-swap Drive Bays
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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
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Backplane

SAS/SATA HDD Backplane

System Cooling

On-Board Devices	
Chipset	▪ Intel® C232 chipset
SATA	▪ SATA3 (6Gbps) via C232 controller ▪ RAID 0, 1, 5, 10 support
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	▪ Dual Intel® I210-AT Gigabit Ethernet LAN ports ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	▪ ASPEED AST2400 BMC
Input / Output	
SATA	▪ 2x SATA3 (6Gbps) ports
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Shared IPMI LAN port
USB	▪ USB 3.0 ▪ 2x USB 2.0 ports
Video	▪ 1x VGA port
Serial Port / Header	▪ 1x COM ports (1 rear)
SuperDOM	▪ 2x <u>SuperDOM</u> (Disk on Module) ports with built-in power
PC Health Monitoring	
Voltage	▪ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
FAN	▪ Total of 4 fan headers supporting up to 4 fans ▪ 4 fans with tachometer status monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ I ² C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ Suspend static indicator LED ▪ UID/Remote UID
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header ▪ Chipkill support ▪ RoHS, Halogen Free

PCI-Express	▪ 1x PCI-E 3.0 x8 AOC slot
Drive Bays	
Hot-swap	▪ 1x 3.5" or 2x 2.5" internal drive bays
Peripheral Drives	
Optional	▪ 2x 2.5" Fixed drives internal
System Cooling	
Fans	▪ 2x 40x28mm 4-pin PWM Cooling Fans
Power Supply	
200W Low Noise AC-DC power supply with PFC	
AC Voltage	▪ 100 - 240V, 50-60Hz, 2.6 Amp Max
+5V	▪ 8.0 Amp (max.)
+5V standby	▪ 2.0 Amp (max.)
+12V	▪ 16 Amp (max.)
-12V	▪ 0.5 Amp (max.)
+3.3V	▪ 8.0 Amp (max.)



System BIOS	
BIOS Type	▪ 8MB SPI Flash EEPROM with AMI BIOS
BIOS Features	▪ DMI 2.3 ▪ PCI 2.3 ▪ ACPI 1.0 / 2.0 ▪ USB Keyboard support ▪ SMBIOS 2.3

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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SSL-F	1	Super X11SSL-F Motherboard
	CSE-510-203B	1	1U Chassis
Cable 1	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
Manual	MNL-1796-QRG	1	5019S-L,QRG,HF,RoHS/REACH
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

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)