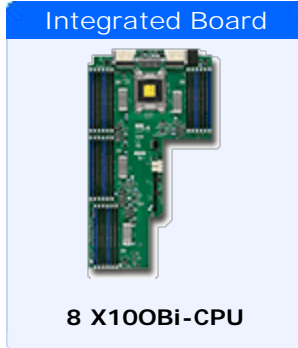


SuperServer 7088B-TR4FT (Complete System Only)



Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

192/128/64 DIMMs are the recommended memory population configurations for the best performance.

[▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Key Features

1. Eight socket R1 (LGA 2011) supports Intel® Xeon® processor E7-8800 v4/v3 family (up to 24-Core)
2. Up to 24TB in 192 DDR4 DIMM slots
3. Up to 15 PCI-E 3.0 slots (8 x16, 7 x8 in x16)
4. 4 10Gb LAN (SIOM), 1 dedicated LAN for IPMI Remote Management, 1 VGA, 2 USB 2.0, 1 COM via KVM
5. Up to 12 Hot-swap 2.5" SAS3 HDDs (w/ RAID cards), 20x 2.5" or 6x 3.5" internal HDDs (w/ RAID cards)
6. 8x 9cm Hot-swap counter-rotating rear fans
7. 5x 1600W Redundant (N+1) Power Supplies, Titanium Level (96%)

[90TB DWFT For Microsoft® SQL Server® 2016](#)

Specifications

Product SKUs

SYS-7088B-TR4FT ■ SuperServer 7088B-TR4FT (Black)

Motherboard

Super X100Bi-CPU

Processor/Cache

CPU ■ Intel® Xeon® processor E7-8800 v4/v3 family (up to 24 Cores and 165W TDP)
 ■ Socket R1 (LGA 2011)

Cache ■ Up to 60 MB

System Bus ■ QPI up to 9.6 GT/s

System Memory

Chassis

Form ■ 7U Rackmountable
 Factor ■ Rackmount Kit: Comes with the system
 Model ■ CSE-718TQC-R4800B

Dimensions and Weight

Height ■ 12.2" (310mm)
 Width ■ 17.63" (448mm)
 Depth ■ 28.87" (733mm)
 Weight ■ Gross Weight: 208 lbs (93.35 kg)
 Available Colors ■ Black

Drive Bays

Hot-swap ■ 12 Hot-swap 2.5" SAS3 drive bays (w/ RAID cards)
 ■ 20x 2.5" or 6x 3.5" internal drive bays (w/ RAID cards)

Memory Capacity	<ul style="list-style-type: none"> 192x 288-pin DDR4 DIMM slots Supports up to 24TB DDR4 ECC 3DS LRDIMM in 192 DIMM slots
Memory Type	<ul style="list-style-type: none"> 2400*/2133*/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs <p>* Run up to 1866MHz depend on setting.</p>
DIMM Sizes	<ul style="list-style-type: none"> 128GB, 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 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
Storage	<ul style="list-style-type: none"> Intel C602J including 2 SATA3 (SATA DOM) + 4 SATA2(2 M.2, 2 HDD)
Network Controllers (via AOM)	<ul style="list-style-type: none"> 4-port 10GBase-T Ethernet SIOM (Intel® X550 controller)
IPMI (via AOM)	<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 2400
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output

Storage	<ul style="list-style-type: none"> 2 SATA2 (HDD) ports 2 SATA2 (M.2) ports 2 SATA3 (SATADOM) ports
LAN	<ul style="list-style-type: none"> 4 10GBase-T ports via SIOM 1 dedicated LAN port for IPMI
USB	<ul style="list-style-type: none"> 2 USB 2.0 ports via KVM port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 ports: 1 front via KVM port

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

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 15 PCI-E 3.0 FH slots total 8 PCIE 3.0 x16 + 7 PCIE 3.0 x8 (in x16) slots Up to 16 U.2 NVMe option available
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Backplane

2x 6-port 12G backplane supports 6x 2.5" SAS3/SATA3 HDD/SSD

System Cooling

Fans	<ul style="list-style-type: none"> 8x 9cm Hot-Swap Counter-rotating Rear Fans
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Power Supply

1600W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1600W
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 13 - 9A / 50-60Hz 200-240Vac / 10 - 8A / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 83.3A / Min: 0A (100-127Vac) Max: 133A / Min: 0A (200-240Vac)
12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector

Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]
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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-718TQC-R4800B	1	CSE-718TQC-R4800B 7U Chassis
Motherboard	X100BI-CPU-CPU	8	Super X100Bi-CPU-CPU Motherboard
Add-on Card / Module	AOM-X100BI-PCH-P	1	PCH and BMC add on module for X100BI series MB
Add-on Card / Module	AOM-X100BI-PCIE-P	5	PCI-E add on module for X10 7U 8-way server
Add-on Card / Module	AOM-X100BI-HDD-P	2	Storage add-on module for X100BI series MB
Add-on Card / Module	AOC-MTG-I4TM-P	1	[NR]AOC-MTG-I4TM-P
Backplane	BPN-SAS3-718TQ	2	6-port SC718TQC SAS3 12Gbps TQ backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD
Backplane	BPN-X100BI	1	Midplane for X10 8-way server
Cable 1	CBL-PWEX-0651	1	8 pin female to 2x RA(Right Angle) big 4 pin female power, 40/50CM, 18AWG,RoHS/REACH
Cable 2	CBL-0218L	1	11.5CM KVM/SUVI 36 PIN TO 9 PIN/15 PIN 2USB, 30/28AWG
Cable 3	CBL-0484L	2	55cm 30AWG SATA S-S cable
Riser Card	RSC-BLG-E16R	8	RSC-BLG-E16R-O-P
Riser Card	RSC-R1UF-E16R	2	1U RHS Riser Card with PCI-E X16 for FAT TWIN System
Heatsink / Retention	SNK-P0047PS	8	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K62A-1R	5	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
Battery Backup Kit Cache Vault (s) for 1x 3108	BTR-TFM8G-LSICVM02	1	LSI Supercap w/ 8GB CV + 24" cable (whole kit)
	MCP-240-00127-0N	1	LSI SuperCap Bracket, Include Screw, Same Size as 2.5" HDD
	MCP-220-00137-0N	1	HDD bkt for 2x 2.5"HDD (use std 2.5" HDD hole)
Storage Options	See Details	-	SAS3 and NVMe Options
GPU Power Cable	CBL-PWEX-0665	-	PCIe 8 pin female(black) to CPU 8 pin female(white), K80/M60/M40 GPU power cable, 30cm, 18AWG,RoHS/REACH
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	QSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)