

SuperServer 8028B-TR3F



Integrated Board



Super X10QBL

Available Colors:

Black



[▶ 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 2TB DDR3 (64GB LRDIMM), up to 1600MHz; 32x DIMM slots
3. 2x PCI-E 3.0 x16 Low-profile slot; 2x PCI-E 3.0 x8 Low-profile 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. 6x 3.5" Hot-swap SATA Drive Bays
7. 3x 8cm Heavy Duty fans w/ speed control
8. 1400W Redundant Digital PS **Platinum Level (95%)**

Specifications

Product SKUs

SYS-8028B-TR3F ■ SuperServer 8028B-TR3F (Black)

Motherboard

Super X10QBL

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 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

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 AST2400 BMC

Input / Output

SATA ■ 2x SATA3 (6Gbps) ports
■ 4x SATA2 (3Gbps) ports

LAN ■ 2x RJ45 Gigabit Ethernet LAN ports
■ 1x dedicated LAN port for IPMI

USB ■ 3x USB 2.0 rear ports

Video ■ 1x VGA Port

Chassis

Form Factor ■ 2U Rackmount

Model ■ **CSE-828TQ-R1K43LPB**

Dimensions

Height ■ 3.5" (89mm)

Width ■ 17.2" (437mm)

Depth ■ 27.9" (709mm)

Weight ■ Net Weight: 40 lbs (18.1 kg)
■ Gross Weight: 66.5 lbs (30.2 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

LEDs ■ Power LED
■ Hard drive activity LED
■ 2x Network activity LEDs
■ System Overheat LED

Expansion Slots

PCI-Express ■ 2x PCI-E 3.0 x16 Low-profile slot
■ 2x PCI-E 3.0 x8 Low-profile slot

Drive Bays

Hot-swap ■ 6x 3.5" Hot-swap Drive Bays

Backplane

SAS/SATA HDD Backplane

Peripheral Drives

DVD-ROM ■ 1x Slim DVD-ROM (Optional)

System Cooling

Fans ■ 3x 8cm Hot-swap Cooling fans

Shroud ■ 1x Air Shroud

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

Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial 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

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 10x 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
Motherboard / Chassis	MBD-X10QBL	1	Super X10QBL Motherboard
	CSE-828TQ-R1K43LPB	1	CSE-828TQ-R1K43LPB 2U Chassis
Air Shroud	MCP-310-82806-0B	1	Mylar air shroud for SC828 (X10QBL-(CT)),RoHS/REACH
Backplane	BPN-SAS-828TQ	1	6-port 2U CSE-828 TQ (W/ AMI 9072) backplane, support up to 6x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0157L-01	2	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,60CM,28AWG
Cable 2	CBL-0230L	2	SATA,INT,ROUND,ST-RA,65CM,26AWG
Cable 3	CBL-0227L	2	SATA,INT,ROUND,ST-RA,48CM,26AWG
Cable 4	CBL-0228L	2	SATA,INT,ROUND,ST-RA,55CM,26AWG
Heatsink / Retention	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB

Optional Parts List

	Part Number	Qty	Description
2.5" HDD/SSD Tray	MCP-220-00043-0N	-	Black hotswap gen 4 3.5 to 2.5 HDD tray
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)