SuperServer 8028B-TR4F

Integrated Board

Super X10QBL-4

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 4TB DDR4 (128GB 3DS LRDIMM), up to 1866MHz; 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%)**

Available Colors: Black   ▮

▸ **Drivers & Utilities**   ▸ **BIOS**   ▸ **IPMI**   ▸ **Tested Memory**   ▸ **Manuals**
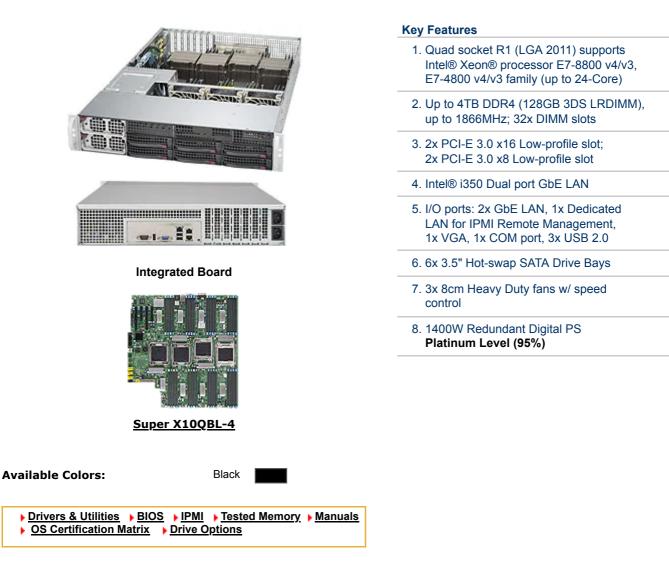▸ **OS Certification Matrix**   ▸ **Drive Options**

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

Specifications

Product SKUs

SYS-8028B-TR4F	SuperServer 8028B-TR4F (**Black**)

Motherboard

Super X10QBL-4

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

System Memory

Memory Capacity	32x 288-pin DDR4 DIMM slots Supports up to 4TB DDR4 ECC 3DS LRDIMM in 32 DIMM slots
Memory Type	1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs
DIMM Sizes	128GB, 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors

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
Serial Port / Header	1 Fast UART 16550 serial port

System BIOS

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

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

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 10x 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
Motherboard / Chassis	MBD-X10QBL-4	1	Super X10QBL-4 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-0228L	2	SATA,INT,ROUND,ST-RA,55CM,26AWG
Cable 3	CBL-0230L	2	SATA,INT,ROUND,ST-RA,65CM,26AWG
Cable 4	CBL-0227L	2	SATA,INT,ROUND,ST-RA,48CM,26AWG
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
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)