

# SuperServer 8028B-TR3F



Available Colors:      Black     

## 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; E7-8800 v2 / 4800 v2 family (15-Core), w/ QPI up to 8 GT/s
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%)

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

## Specifications

Product SKUs	
SYS-8028B-TR3F	<ul style="list-style-type: none"> <li>▪ SuperServer 8028B-TR3F (Black)</li> </ul>
Motherboard	
Super X10QBL	
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>▪ Intel® Xeon® processor E7-8800 v3* / E7-4800 v3* / E7-8800 v2 / E7-4800 v2 family (up to 18 Cores and 165W TDP)</li> <li>▪ Quad Socket R1 (LGA 2011)</li> </ul>
Cache	<ul style="list-style-type: none"> <li>▪ Up to 45 MB</li> </ul>
System Bus	<ul style="list-style-type: none"> <li>▪ QPI up to 9.6 GT/s</li> </ul>
Note:	<ul style="list-style-type: none"> <li>▪ E7-48XX/88XX v3 family requires Rev. 2.0x or above mother board w/ Jordan Creek II</li> </ul>
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 32x 240-pin DDR3 DIMM slots</li> <li>▪ Supports up to 2TB DDR3 ECC LRDIMM in 32 DIMM slots</li> </ul>

Chassis	
Form Factor	<ul style="list-style-type: none"> <li>▪ 2U Rackmount</li> </ul>
Model	<ul style="list-style-type: none"> <li>▪ <a href="#">CSE-828TQ-R1K43LPB</a></li> </ul>
Dimensions	
Height	<ul style="list-style-type: none"> <li>▪ 3.5" (89mm)</li> </ul>
Width	<ul style="list-style-type: none"> <li>▪ 17.2" (437mm)</li> </ul>
Depth	<ul style="list-style-type: none"> <li>▪ 27.9" (709mm)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>▪ Net Weight: 40 lbs (18.1 kg)</li> <li>▪ Gross Weight: 66.5 lbs (30.2 kg)</li> </ul>
Available Colors	<ul style="list-style-type: none"> <li>▪ Black</li> </ul>
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power LED</li> <li>▪ Hard drive activity LED</li> <li>▪ 2x Network activity LEDs</li> <li>▪ System Overheat LED</li> </ul>
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> <li>▪ 2x PCI-E 3.0 x16 Low-profile slot</li> <li>▪ 2x PCI-E 3.0 x8 Low-profile slot</li> </ul>

Memory Type	<ul style="list-style-type: none"> <li>1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>64GB, 32GB, 16GB, 8GB, 4GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C602J chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA2 (3Gbps) with RAID 0, 1, 5, 10</li> <li>SATA3 (6Gbps) with RAID 0, 1</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Dual port GbE LAN</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201F PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>

#### Input / Output

SATA	<ul style="list-style-type: none"> <li>2x SATA3 (6Gbps) ports</li> <li>4x SATA2 (3Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x dedicated LAN port for IPMI</li> </ul>
USB	<ul style="list-style-type: none"> <li>3x USB 2.0 rear ports</li> </ul>
Video	<ul style="list-style-type: none"> <li>1x VGA Port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1 Fast UART 16550 serial port</li> </ul>

#### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>16MB SPI Flash EEPROM with AMI® BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>

#### 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

- |                |   |
|----------------|---|
| CPU            | <ul style="list-style-type: none"> <li>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.</li> <li>4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V</li> </ul> |
| FAN            | <ul style="list-style-type: none"> <li>4-pin fan headers with tachometer status monitoring</li> <li>Low noise fan speed control mode</li> </ul>   |
| Temperature    | <ul style="list-style-type: none"> <li>Monitoring for CPU and system environment</li> <li>Thermal Control for 10x fan connectors</li> </ul>   |
| Other Features | <ul style="list-style-type: none"> <li>Chassis intrusion detection</li> </ul>   |

#### Operating Environment / Compliance

- |                     |   |
|---------------------|---|
| RoHS                | <ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>  |
| Environmental Spec. | <ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul> |

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10QBL	1	Super X10QBL Motherboard
	CSE-828TQ-R1K43LPB	1	CSE-828TQ-R1K43LPB 2U Chassis
<b>Air Shroud</b>	MCP-310-82806-0B	1	Mylar air shroud for SC828 (X10QBL-(CT)),RoHS/REACH
<b>Backplane</b>	BPN-SAS-828TQ	1	Sup 6x SAS/SATA hdd; SATA con
<b>Cable 1</b>	CBL-0157L-01	2	8 pin to 8 pin ribbon SGPIO cable with tube, 60cm, PBF
<b>Cable 2</b>	CBL-0227L	2	48CM SATA ROUND S-RA PBF.26AWG
<b>Cable 3</b>	CBL-0228L	2	55CM SATA ROUND S-RA PBF 26AWG
<b>Cable 4</b>	CBL-0230L	2	65CM SATA ROUND S-RA PBF. 26AWG
<b>Heatsink / Retention</b>	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
<b>2.5" HDD/SSD Tray</b>	MCP-220-00043-0N	-	Black hotswap gen 4 3.5 to 2.5 HDD tray
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)