

SuperServer 8047R-TRF+

[Products](#)
▶ [Systems](#)
▶ [Tower](#)
▶ [[8047R-TRF+](#)]



Available Colors: Black

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

Key Features

1. Quad socket R (LGA 2011) supports Intel® Xeon® processor E5-4600 v2 (12-Core)** or E5-4600 (8-Core) family, w/ QPI up to 8.0 GT/s
2. Up to 1TB* DDR3 1866MHz ECC Registered DIMM; 32x DIMM slots
* Depends on memory configuration
3. 4x PCI-E 3.0 x16 (2 in x8) Slots
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, 4x USB 2.0
6. 5x 3.5" Hot-swap SATA3 HDD Bays and 3x 5.25" peripheral bays
7. 3x 9cm + 3x 8cm Heavy-duty Fans
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-8047R-TRF+	■ SuperServer 8047R-TRF+ (Black)
Motherboard	
Super X9QRI-F+	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ■ Intel® Xeon® processor E5-4600 v2 (12-Core)** or E5-4600 (8-Core) family (up to 130W CPU at 35°C) ■ Quad Socket R (LGA 2011) <p>** BIOS rev. 3.0 or above is needed to support Ivy Bridge-EP 4S.</p>
Cache	■ Up to 30MB
System Bus	■ QPI up to 8 GT/s
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ■ 32x 240-pin DDR3 DIMM slots ■ Supports up to 1TB DDR3 ECC Registered memory (RDIMM) in 32 DIMM slots
Memory Type	■ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	■ 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	■ Intel® C602 chipset
SATA	<ul style="list-style-type: none"> ■ SATA 2.0 3Gbps with RAID 0, 1, 5, 10 ■ SATA 3.0 6Gbps with RAID 0, 1
IPMI	<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 ■ Nuoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> ■ 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	■ Matrox G200eW (Nuoton WPCM450 BMC)
Super I/O	■ Nuoton W83527HG
Input / Output	
SATA	<ul style="list-style-type: none"> ■ 2x SATA 3.0 ports (6Gbps) ■ 4x SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> ■ 2x RJ45 Gigabit Ethernet LAN ports ■ 1x dedicated LAN port for IPMI

Chassis	
Form Factor	<ul style="list-style-type: none"> ■ Tower / 4U Rackmountable ■ Optional Rackmount Kit (MCP-290-00059-0B)
Model	■ CSE-748TQ-R1K43B
Dimensions	
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	<ul style="list-style-type: none"> ■ 5x 3.5" Hard Drive Bays ■ Additional 5x 3.5" Drives available with optional M35 Mobile Rack
Peripheral Bay(s)	■ 3x 5.25" Peripheral Drive Bays
Expansion Slots	
PCI-Express	■ 4x PCI-E 3.0 x16 (2 in x8) Slots
Backplane	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
System Cooling	
Fans	<ul style="list-style-type: none"> ■ 3x 92mm RPM Hot-Swappable Cooling Fans ■ 3x 80mm RPM Hot-Swappable Rear Exhaust Fan
Shrouds	■ 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	<ul style="list-style-type: none"> ■ 100 Amp/115 Vac ■ 117 Amp/230 Vac
With Power Distributor	<ul style="list-style-type: none"> ■ +5V: 30 Amp ■ +3.3V: 25 Amp ■ -12V: 0.6 Amp
Certification	
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

USB	<ul style="list-style-type: none"> ■ 4x USB 2.0 rear ports
Video	<ul style="list-style-type: none"> ■ 1x VGA Port
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

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)

Parts List

[See Parts List](#)