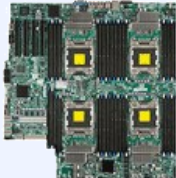


SuperServer 8047R-7RFT+

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Integrated Board



Super X9QR7-TF+

Available Colors: Black

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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® X540 Dual port 10GBase-T
5. I/O ports: 2x 10Gb LAN, 1x Dedicated LAN for IPMI Remote Management, 1x VGA, 1x COM port, 4x USB 2.0
6. 5x 3.5" Hot-swap SAS2/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-7RFT+ ■ SuperServer 8047R-7RFT+ (Black)

Motherboard

Super X9QR7-TF+

Processor/Cache

CPU ■ 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)

** BIOS rev. 3.0 or above is needed to support Ivy Bridge-EP 4S.

Cache ■ Up to 30MB

System Bus ■ QPI up to 8 GT/s

System Memory

Memory Capacity ■ 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 ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C602 chipset

SATA ■ SATA 2.0 3Gbps with RAID 0, 1, 5
 ■ SATA 3.0 6Gbps with RAID 0, 1

SAS ■ SAS2 (6Gbps) via LSI® 2208 controller
 ■ HW RAID 0, 1, 5, 6, 10 support

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 ■ Nuvoton WPCM450 BMC

Network Controllers ■ Intel® X540 Dual Port 10GBase-T
 ■ Virtual Machine Device Queues reduce I/O overhead
 ■ Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output
 ■ 1x Realtek RTL8201F PHY (dedicated IPMI)

Graphics ■ Matrox G200eW (Nuvoton WPCM450 BMC)

Super I/O ■ Nuvoton W83527HG

Chassis

Form Factor ■ 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 ■ Net Weight: 65.5 lbs (29.7 kg)
 ■ Gross Weight: 86.0 lbs (39.0 kg)

Available Colors ■ Black

Drive Bays

Hot-swap ■ 5x 3.5" Hard drive bays
 ■ Additional 5x 3.5" Hard Drives available with optional M35 Mobile Rack

Peripheral Bay(s) ■ 3x 5.25" Peripheral Drive Bay

Expansion Slots

PCI-Express ■ 4x PCI-E 3.0 x16 (2 in x8) Slots

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans ■ 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 ■ 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

Input / Output	
SATA	2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SAS	8x SAS2 ports (6Gbps)
LAN	2x RJ45 10GBase-T ports 1x dedicated LAN port for IPMI
USB	4x USB 2.0 rear ports
Video	1x VGA Port
Serial Port / Header	1 Fast UART 16550 serial port

System BIOS	
BIOS Type	16MB 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

[See Parts List](#)