SuperServer 8027R-7RFT+

Integrated Board

Super X9QR7-TF+

Available Colors: Black

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD
▸ Manuals ▸ OS Certification Matrix

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 sockets
   * Depends on memory configuration
3. 4x PCI-E 3.0 x16 (2 in x8) LP 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. 6x 3.5" Hot-swap SAS2/SATA3 Drive Bays
7. 3x 8cm Hot-swap Cooling 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-8027R-7RFT+	SuperServer 8027R-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 sockets Supports up to 1TB DDR3 ECC Registered memory (RDIMM) in 32 DIMM sockets
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, 10 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

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

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	4x PCI-E 3.0 x16 (2 in x8) Low-profile Slots

Drive Bays	
Hot-swap	6x 3.5" Hot-swap SAS2/SATA3 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	80 PLUS PLATINUM — Platinum Certified

PC Health Monitoring	
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

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