SuperServer 7047R-TRF

Integrated Board

Super X9DRi-F

Available Colors: Black

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

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. 3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 slots
4. 2x Gigabit Ethernet LAN ports; Intel® i350 Dual port GbE Controller
5. 2x SATA3, 8x SATA2 ports
6. 8x Hot-swap 3.5" HDD Bays
7. 920W Redundant Power Supplies **Platinum Level (94%)**
8. Tower or Rackmount

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

Specifications

Product SKUs	
SYS-7047R-TRF	▪ SuperServer 7047R-TRF (**Black**)

Motherboard	
Super X9DRi-F	

Processor/Cache	
CPU	▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and **E5-2600 v2** family† (up to 130W TDP)
Note	† BIOS version 3.0 or above is required
Cache	▪ Up to 30MB
System Bus	▪ QPI up to 8 GT/s

System Memory	
Memory Capacity	▪ 16x 240-pin DDR3 DIMM sockets ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC Registered memory (RDIMM) ▪ Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
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, 5, 10
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® i350 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
Video	▪ G200 (Nuvoton WPCM450 BMC with graphic controller)
Super I/O	▪ Nuvoton W83527

Input / Output	
SATA	▪ 2x SATA 3.0 ports (6Gbps) ▪ 8x SATA 2.0 ports (3Gbps)
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 2x Front USB 2.0 + 4x Rear USB 2.0 ports ▪ MB: 4x rear + 6x via header + 1x Type A
Video	▪ 1x VGA port
Serial Port / Header	▪ 2x Fast UART 16550 ports

Expansion Slots	
PCI-Express	▪ 3 (x16) PCI-E 3.0 slots ▪ 3 (x8) PCI-E 3.0 slots

System BIOS	
BIOS Type	▪ 64Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ APM 1.2 ▪ DMI 2.2 ▪ ACPI 1.0 / 2.0 ▪ USB Keyboard support ▪ SMBIOS 2.3 ▪ UEFI

Chassis	
Form Factor	▪ 4U Rackmountable / Tower ▪ Optional Rackmount Kit
Model	▪ CSE-745TQ-R920B

Dimensions	
Height	▪ 17.2" (437mm)
Width	▪ 7.0" (178mm)
Depth	▪ 25.5" (648mm)
Gross Weight	▪ 58 lbs (26.3kg)
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 ▪ Power Fail LED
Ports	▪ 2x USB Ports

Drive Bays	
Hot-swap	▪ 8x Hot-swap 3.5" SAS/SATA Drive Trays
Peripheral Bay (s) [90° Rotatable]	▪ 2x 5.25" Peripheral Drive Bays ▪ 1x 5.25" Bay that fits 3.5" bay devices

SAS / SATA Backplane
SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling	
Fans	▪ 3x 5000 RPM Hot-swap PWM Cooling Fans ▪ 2x 5000 RPM Hot-swap Rear Exhaust PWM Fans

Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
AC Input	▪ 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	▪ 4 Amp @ +5V standby ▪ 75 Amp @ +12V
Certification	80 PLUS PLATINUM 94% **Platinum Certified** [Test Report]

PC Health Monitoring	
CPU	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. ▪ 6-Phase-switching voltage regulator
FAN	▪ Total of eight fan headers supporting up to 8 fans ▪ 8x fans with tachometer status monitoring ▪ Status monitor for speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ Thermal Control for 8x fan connectors ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	▪ CPU / System Overheat LED ▪ Suspend static indicator LED ▪ UID/Remote LED
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header

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

**This memory modules are not tested yet

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