

SuperServer 7048R-TRT

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Available Colors: Black

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

Key Features

- Cloud and Virtualization needs
- Compute Intensive Application
- Database Processing and Storage
- High Availability Storage
- Mission-critical Applications


1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC DDR4 2133MHz; 16x DIMM sockets
3. 3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 slots
4. Intel® X540 Dual port 10GBase-T
5. Intel C612 controller for 8 SATA3 ports; RAID 0, 1, 5, 10
6. 8x 3.5" Hot-swap SATA3 HDD Bays
7. 920W Redundant Power Supplies **Platinum Level (94%)**

Specifications

Product SKUs	
SYS-7048R-TRT	SuperServer 7048R-TRT (Black)
Motherboard	
Super X10DRi-T	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP **) ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 18 Cores / Up to 45MB Cache
System Bus	▪ QPI up to 9.6 GT/s
Note	** Please contact your Supermicro sales representative for additional details.
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 16x 288-pin DDR4 DIMM sockets ▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
Memory Type	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> ▪ RDIMM: 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB
Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors
On-Board Devices	
Chipset	▪ Intel® C612 Express chipset
SATA	<ul style="list-style-type: none"> ▪ SATA 3.0 (6Gbps) with RAID 0, 1, 5, 10
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 ▪ ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> ▪ Intel® X540 Dual Port 10GBase-T ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Chassis	
Form Factor	<ul style="list-style-type: none"> ▪ 4U Rackmountable / Tower ▪ Optional Rackmount Kit
Model	▪ CSE-745TQ-R920B
Dimensions and Weight	
Height	▪ 17.2" (437mm)
Width	▪ 7.0" (178mm)
Depth	▪ 25.5" (648mm)
Package	▪ 24" (H) x 14" (W) x 26.5" (D)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 56 lbs (25.6 kg) ▪ Gross Weight: 73.5 lbs (33.6 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED ▪ 2x Network activity LEDs ▪ System Overheat LED ▪ Power Fail LED
Ports	▪ 2x USB Ports
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> ▪ 3x PCI-E 3.0 x16 (Full-height, Full-length) ▪ 3x PCI-E 3.0 x8 (Full-height, Full-length)
Drive Bays	
Hot-swap	▪ 8x 3.5" Hot-swap SAS/SATA Drive Trays
Peripheral Bay (s) [90° Rotatable]	<ul style="list-style-type: none"> ▪ 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	

	<ul style="list-style-type: none"> 1x Realtek RTL8201N PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 8x SATA3 (6Gbps) ports 2x SATA3 powered ports that support SATA DOM
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> Rear USB: 2x USB 3.0 + 2x USB 2.0 Front USB: 2x USB 2.0 USB Header: 2x 3.0, 2x 2.0, 1x Type A
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x COM/Serial
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1
Management	
Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog NMI, SPM, SUM IPMI 2.0 Intel Node Manager
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery

System Cooling	
Fans	<ul style="list-style-type: none"> 3x 8cm hot-swap redundant PWM cooling fans 2x 8cm hot-swap exhaust Fans and air shroud
Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V
Certification	 Platinum Certified [Test Report]
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x fan connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote LED
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header
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](#)

**This memory modules are not tested yet

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