

SuperServer 7047R-72RFT



Integrated Board



Super X9DRH-7TF

Available Colors:

Black



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. 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 slots
4. Intel® X540 Dual port 10GbBase-T
5. 8x SATA2 and 2x SATA3 ports
6. 8x Hot-swap 3.5" HDD Bays; Support SAS2 HW RAID via LSI 2208
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-72RFT | ▪ SuperServer 7047R-72RFT (Black) |
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Motherboard

Super X9DRH-7TF

Processor/Cache

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| CPU | ▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† |
| Note | † BIOS version 3.0 or above is required |

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| Cache | ▪ Up to 30MB |
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| System Bus | ▪ QPI up to 8 GT/s |
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System Memory

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| Memory Capacity | ▪ 16x 240-pin DDR3 DIMM sockets ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC Registered memory (RDIMM) ▪ Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM) |
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| Memory Type | ▪ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated |
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Chassis

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| Form Factor | ▪ 4U Rackmountable / Tower |
| Model | ▪ CSE-745TQ-R920B |

Dimensions

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| Height | ▪ 17.2" (437mm) |
| Width | ▪ 7.0" (178mm) |
| Depth | ▪ 25.5" (648mm) |
| Gross Weight | ▪ 58 lbs (26.3kg) |
| Available Colors | ▪ Black |

Front Panel

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|----------------|---|
| 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

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| Hot-swap | ▪ 8x Hot-swap 3.5" SAS2/SATA Drive Trays |
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| DIMM Sizes | <ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB |
| Memory Voltage | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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, 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 Nuvoton WPCM450 BMC |
| SAS | <ul style="list-style-type: none"> SAS2 from LSI 2208 HW RAID 0, 1, 5, 6, 10, 50, 60 support |
| 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 1x Realtek RTL8201N PHY (dedicated IPMI) |
| Video | <ul style="list-style-type: none"> G200 (Nuvoton WPCM450 BMC with graphic controller) |
| Super I/O | <ul style="list-style-type: none"> Nuvoton W83527 |
| Input / Output | |
| SATA | <ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps) |
| SAS | <ul style="list-style-type: none"> 8x SAS2 ports (6Gbps) |
| LAN | <ul style="list-style-type: none"> 2x RJ45 10GBase-T ports 1x RJ45 Dedicated IPMI LAN port |
| USB | <ul style="list-style-type: none"> 2x Front USB 2.0 + 4x Rear USB 2.0 ports MB: 4x rear + 2x via header + 1x Type A |
| Video | <ul style="list-style-type: none"> 1x VGA port |
| Serial Port / Header | <ul style="list-style-type: none"> 2x Fast UART 16550 ports |
| Expansion Slots | |
| PCI-Express | <ul style="list-style-type: none"> 1 PCI-E 3.0 x16 slot 6 PCI-E 3.0 x8 slots |
| System BIOS | |
| BIOS Type | <ul style="list-style-type: none"> 64Mb SPI Flash EEPROM with AMI® BIOS |
| BIOS Features | <ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DMI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI |

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| 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 |
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SAS / SATA Backplane

SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling

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| Fans | <ul style="list-style-type: none"> 3x 5000 RPM Hot-swap PWM Cooling Fans 2x 5000 RPM Hot-swap Rear Exhaust PWM Fans |
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Power Supply with Power Distributor

920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C

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| AC Input | <ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp |
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| DC Output | <ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V |
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Certification



Platinum Certified
[Test Report]

PC Health Monitoring

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|-----------------------|---|
| 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

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| 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

Parts List - (Items Included)

| | Part Number | Qty | Description |
|------------------------------|-------------------|-----|--|
| Motherboard / Chassis | MBD-X9DRH-7TF | 1 | Super X9DRH-7TF Motherboard |
| | CSE-745TQ-R920B | 1 | 4U Chassis |
| Backplane | CSE-SAS-743TQ-O-P | 1 | CSE-SAS-743TQ-O-P |
| Heatsink / Retention | SNK-P0048PS | 2 | 2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM |
| Power Supply | PWS-920P-1R | 2 | 1U REDUNDANT 920W PMBus 94% EFFICIENCY |
| Cable | CBL-0118L-03 | 2 | lpass to 4 SATA cable 23CM, W / 25.5cm SB, S, 30AWG |

Optional Parts List

| | Part Number | Qty | Description |
|-----------------------|-------------|-----|-------------------------------------|
| Mounting Rails | CSE-PT26 | - | Outer slides extendable length: 26" |