

SuperServer 7047R-72RF



Integrated Board



[Super X9DRH-7F](#)

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. 2x Gigabit Ethernet LAN ports; Intel® i350 Dual port GbE Controller
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-72RF	▪ SuperServer 7047R-72RF (Black)
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Motherboard

[Super X9DRH-7F](#)

Processor/Cache

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

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

Chassis

Form Factor	▪ 4U Rackmountable / Tower
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" 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® 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	<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 Gigabit Ethernet LAN 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

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-7F	1	Super X9DRH-7F 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	1	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"