

# SuperServer 7047R-3RF4+



## Integrated Board



Super X9DR3-LN4F+

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 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM sockets
3. Expansion slots: 4 (x16) PCI-E 3.0, 1 (x8) PCI-E 3.0, 1x (x4) PCI-E 3.0 in x8
4. Intel® i350 GbE Controller; 4x ports
5. 4x SATA2, 2x SATA3, 8x SAS ports
6. 8x Hot-swap 3.5" SAS/SATA 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-3RF4+** ■ SuperServer 7047R-3RF4+ (**Black**)

### Motherboard

Super X9DR3-LN4F+

### 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

- System Bus** ■ QPI up to 8 GT/s

### System Memory

- Memory Capacity** ■ 24x 240-pin DDR3 DIMM sockets  
■ Up to 1.5TB DDR3 ECC LRDIMM  
■ Up to 768GB DDR3 ECC Registered memory (RDIMM)  
■ Up to 192GB 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  
■ Optional Rackmount Kit
- Model** ■ **CSE-745TQ-R920B**

### Dimensions

- Height** ■ 17.2" (437mm)
- Width** ■ 7.0" (178mm)
- Depth** ■ 25.5" (648mm)
- Gross Weight** ■ 73.5 lbs (33.6 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  
■ Power Fail LED
- Ports** ■ 2x USB Ports

### Drive Bays

- Hot-swap** ■ 8x Hot-swap 3.5" SAS/SATA Drive Trays

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
<b>On-Board Devices</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C606 Chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1, 5, 10</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>SAS from C606</li> <li>RAID 0, 1, 10 support</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Winbond BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® i350 Gigabit Ethernet Controller</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>G200 (Nuvoton WPCM450 BMC with graphic controller)</li> </ul>
<b>Super I/O</b>	<ul style="list-style-type: none"> <li>Nuvoton W83527</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>4x SATA 2.0 ports (3Gbps)</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>8x SAS ports via C606</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x Front USB 2.0 + 4x Rear USB 2.0 ports</li> <li>MB: 4x rear + 4x via header + 1x Type A</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Fast UART 16550 ports</li> </ul>
<b>Expansion Slots</b>	
<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>4x PCI-E 3.0 x16 (Full-height, Full-length)</li> <li>1x PCI-E 3.0 x8 (Full-height, Full-length)</li> <li>1x PCI-E 3.0 x4 (in x8) (Full-height, Full-length)</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>DMI 2.2</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</li> </ul>

<b>Peripheral Bay(s) [90° Rotatable]</b>	<ul style="list-style-type: none"> <li>2x 5.25" Peripheral Drive Bays</li> <li>1x 5.25" Bay that fits 3.5" bay devices</li> </ul>
<b>SAS / SATA Backplane</b>	
SAS / SATA Hard Drive Backplane w/AMI MG9072	
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>3x 5000 RPM Hot-swap PWM Cooling Fans</li> <li>2x 5000 RPM Hot-swap Rear Exhaust PWM Fans</li> </ul>
<b>Power Supply with Power Distributor</b>	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 11-4.5 Amp</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>4 Amp @ +5V standby</li> <li>75 Amp @ +12V</li> </ul>
<b>Certification</b>	
<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li> <li>6-Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of eight fan headers supporting up to 8 fans</li> <li>8x fans with tachometer status monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x fan connectors</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>System info. LED: UID indicator, fan fail/System Overheat</li> <li>Suspend static indicator LED</li> <li>UID/Remote LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> <li>Chassis intrusion header</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

### Parts List - (Items Included)

	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<b>Motherboard / Chassis</b>	MBD-X9DR3-LN4F+	1	Super X9DR3-LN4F+ Motherboard
	CSE-745TQ-R920B	1	4U Chassis
<b>Backplane</b>	CSE-SAS-743TQ-O-P	1	CSE-SAS-743TQ-O-P
<b>Cable 1</b>	CBL-0118L-02	2	lpass to 4 SATA cable 23CM, W / 25.5cm SB, S, 26AWG
<b>Cable 2</b>	CBL-0118L-03	2	lpass to 4 SATA cable 23CM, W / 25.5cm SB, S, 30AWG
<b>Heatsink / Retention</b>	SNK-P0048P	2	2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Square ILM
<b>Power Supply</b>	PWS-920P-1R	2	1U REDUNDANT 920W PMBus 94% EFFICIENCY

### Optional Parts List

	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<b>Mounting Rails</b>	CSE-PT26	-	Outer slides extendable length: 26"
<b>HDD Tray Converter</b>	MCP-220-00080-0B	-	Adaptor HDD carrier to install 2.5" HDD in 3.5" HDD tray