

# SuperServer 2027TR-HTFRF



Available Colors:

Black



## Integrated Board



**Super X9DRT-HIBFF**

## Key Features

Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
3. 1x PCI-E 3.0 (x16) low-profile slot
4. Intel® i350 Dual port Gigabit Ethernet
5. 6x Hot-swap 2.5" SATA3/SAS HDD Bays
6. Onboard Mellanox ConnectX FDR InfiniBand Controller, QSFP interface
7. 1620W Redundant Power Supplies Platinum Level (94%)

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

## Specifications

### Product SKUs

SYS-2027TR-HTFRF	■ SuperServer 2027TR-HTFRF (Black)
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### Motherboard

Super X9DRT-HIBFF

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>■ Dual Socket R (LGA 2011)</li> <li>■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP *)</li> </ul>
	* Please contact your Supermicro sales representative for additional details

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	<ul style="list-style-type: none"> <li>■ 8x 240-pin DDR3 DIMM sockets</li> <li>■ Up to 512GB DDR3 ECC LRDIMM</li> <li>■ Up to 256GB DDR3 ECC Registered memory (RDIMM)</li> </ul>
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### Chassis

Form Factor	■ 2U Rackmount
Model	■ <u>CSE-217HQ-R1620B</u>

### Dimensions

Width	■ 17.25" (438mm)
Height	■ 3.47" (88mm)
Depth	■ 26.75" (679mm)
Gross Weight	■ 85 lbs (38.6kg)
Available Colors	■ Black

### Front Panel

Buttons	<ul style="list-style-type: none"> <li>■ Power On/Off button</li> <li>■ System Reset button</li> <li>■ UID button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>■ Power status LED</li> <li>■ HDD activity LED</li> <li>■ 2x Network activity LEDs</li> <li>■ Universal Information (UID) LED</li> </ul>

### Expansion Slots (per Node)

PCI-Express	■ 1x PCI-E 3.0 (x16) Low-profile slot
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Memory Type	<ul style="list-style-type: none"> <li>1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
Infiniband	<ul style="list-style-type: none"> <li>Mellanox ConnectX-3 FDR Infiniband 56Gbps Controller</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA 2.0 &amp; 3.0 with RAID 0, 1, 5, 10</li> </ul>
IPMI	<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>Nuvoton WPCM450 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port Gigabit Ethernet</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>
Graphics	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output (per Node)

Serial ATA	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>5x SATA 2.0 ports (3Gbps)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>3x USB 2.0 ports total (2x rear + 1x Type A)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port / 1 Header</li> </ul>
Infiniband	<ul style="list-style-type: none"> <li>1 external QSFP Infiniband connector</li> </ul>

#### Drive Bays (per Node)

Hot-swap	<ul style="list-style-type: none"> <li>6x Hot-swap 2.5" SATA3/SAS HDD trays</li> </ul>
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#### System Cooling

Fans	<ul style="list-style-type: none"> <li>4x 8cm heavy duty PWM fans with optimal fan speed control</li> </ul>
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#### Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input	<ul style="list-style-type: none"> <li>1000W Output @ 100-120V, 12-10A, 50-60Hz</li> <li>1200W Output @ 120-140V, 12-10A, 50-60Hz</li> <li>1620W Output @ 180-240V, 10.5-8A, 50-60Hz</li> </ul>
	<ul style="list-style-type: none"> <li>1000W: +12V/84A; +5Vsb/4A</li> <li>1200W: +12V/100A; +5Vsb/4A</li> <li>1620W: +12V/150A; +5Vsb/4A</li> </ul>

Certification	  Platinum Certified [ <a href="#">Test Report</a> ]
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#### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.2</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</li> </ul>

#### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<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)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRT-HIBFF	4	Super X9DRT-HIBFF Motherboard
	CSE-217HQ-R1620B	1	2U Chassis
Backplane	BPN-SAS-217HQ	1	Support 24x2.5ö SAS/SATA hard drives
Backplane	BPN-ADPX9-6SATA-O-P	4	6-PORT SATA ADAPTER FOR TWIN
Cable 1	CBL-0473L	8	21cm 30AWG SATA S-S cable
CD	CDR-X9	1	Driver CD for X9 series
Riser Card	RSC-R1U-E16R-O-P	4	RSC-R1U-E16R
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Heatsink / Retention	SNK-P0047PW	4	1U Passive Customized Rear CPU Heat Sink for X9 Twin Series Motherboards
Power Supply	PWS-1K62P-1R	2	1620W REDUNDANT POWER MODULE

[Hide Parts List](#)