

# SuperServer 6027TR-HTRF+



## Integrated Board



Super X9DRT-HF+



Available Colors:

Black



## 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 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. 1x MicroLP PCI-E 3.0 x8 slot
4. Intel® i350 Dual port Gigabit Ethernet
5. 3x Hot-swap 3.5" SATA HDD Bays
6. 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-6027TR-HTRF+ ■ SuperServer 6027TR-HTRF+ (Black)

### Motherboard

Super X9DRT-HF+

### Processor/Cache

CPU

- Dual Socket R (LGA 2011)
  - Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP \*)
- \* 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

### Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-827HQ-R1620MB

### 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 ■ Power On/Off button  
 ■ System Reset button  
 ■ UID button

LEDs ■ Power status LED  
 ■ HDD activity LED

## System Memory

Memory Capacity	<ul style="list-style-type: none"><li>16x 240-pin DDR3 DIMM sockets</li><li>Up to 1TB DDR3 ECC LRDIMM</li><li>Up to 512GB DDR3 ECC Registered memory (RDIMM)</li></ul>
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>
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>1x 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>5x USB 2.0 ports total (2 rear + 2 via header + 1 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</li></ul>

- 2x Network activity LEDs
- Universal Information (UID) LED

## Expansion Slots (per Node)

PCI-Express	<ul style="list-style-type: none"><li>1 Micro Low Profile PCI-E 3.0 x8 slot</li></ul> <a href="#">MicroLP Adapter Matrix</a>
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## Drive Bays (per Node)

Hot-swap	<ul style="list-style-type: none"><li>3x Hot-swap 3.5" SATA 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>
DC Output	<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  
[ [Test Report](#) ]

## 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-HF+	4	Super X9DRT-HF+ Motherboard
	CSE-827HQ-R1620MB	1	2U Chassis
Backplane	BPN-ADPX9-6SATA-O-P	4	6-PORT SATA ADAPTER FOR TWIN
Backplane	BPN-SAS-827HQ	1	SAS Backplane, x12 3.5" HDD, 2U Twin
Cable 1	CBL-0483L	8	29cm 30AWG SATA S-S cable
Heatsink / Retention	SNK-P0047PS	4	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Heatsink / Retention	SNK-P0047PSM	4	1U Passive Front CPU Heat Sink for X9 2U Twin^2+ Series Servers
Power Supply	PWS-1K62P-1R	2	1620W REDUNDANT POWER MODULE