

SuperServer 2027TR-H70RF+



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. 6x Hot-swap 2.5" SATA/SAS HDD Bays
6. LSI 2008 SAS2 Controller (BPN-ADP-SAS2-L6i)
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-H70RF+	■ SuperServer 2027TR-H70RF+ (Black)
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Motherboard

Super X9DRT-HF+

Processor/Cache

CPU	<ul style="list-style-type: none"> ■ Dual Socket R (LGA 2011) ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP *) <p>* Please contact your Supermicro sales representative for additional details</p>
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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-217HQ-R1K62MB

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"> ■ Power On/Off button ■ System Reset button ■ UID button
LEDs	<ul style="list-style-type: none"> ■ Power status LED ■ HDD activity LED

System Memory

Memory Capacity	<ul style="list-style-type: none">16x 240-pin DDR3 DIMM socketsUp to 1TB DDR3 ECC LRDIMMUp to 512GB DDR3 ECC Registered memory (RDIMM)
Memory Type	<ul style="list-style-type: none">1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
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 errorsDetects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none">Intel® C602 Chipset
SAS	<ul style="list-style-type: none">LSI 2008 SAS (6Gbps)RAID 0, 1, 10 support(Optional: AOC-SAS2-RAID5-KEY) RAID 5 support
SATA	<ul style="list-style-type: none">SATA 2.0 & 3.0 with RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none">Support for Intelligent Platform Management Interface v.2.0IPMI 2.0 with virtual media over LAN and KVM-over-LAN supportNuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none">Intel® i350 Dual Port Gigabit EthernetVirtual Machine Device Queues reduce I/O overheadSupports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none">Matrox G200eW

Input / Output (per Node)

Serial ATA	<ul style="list-style-type: none">6x SATA 3.0 ports (6Gbps)
SAS	<ul style="list-style-type: none">6x SAS ports (6Gbps)
LAN	<ul style="list-style-type: none">2x RJ45 Gigabit Ethernet LAN ports1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">5x USB 2.0 ports total (2 rear + 2 via header + 1 Type A)
VGA	<ul style="list-style-type: none">1x VGA port
Serial Port / Header	<ul style="list-style-type: none">1x Fast UART 16550 port / 1 Header

LEDs

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

Expansion Slots (per Node)

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

Hot-swap	<ul style="list-style-type: none">6x Hot-swap 2.5" SATA3/SAS2 HDD trays
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System Cooling

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

1620W high-efficiency redundant power supply w/ PMBus

AC Input	<ul style="list-style-type: none">1000W Output @ 100-120V, 12-10A, 50-60Hz1200W Output @ 120-140V, 12-10A, 50-60Hz1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	<ul style="list-style-type: none">1000W: +12V/84A; +5Vsb/4A1200W: +12V/100A; +5Vsb/4A1620W: +12V/150A; +5Vsb/4A

Certification



Platinum Certified
[[Test Report](#)]

System BIOS

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

Operating Environment / Compliance

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-X9DRT-HF+	4	Super X9DRT-HF+ Motherboard
	CSE-217HQ-R1K62MB	1	2U Chassis
Backplane	BPN-ADP-SAS2-L6I-O-P	4	BPN,BPN-ADP-SAS2-L6i,LSI2008,PBF
Backplane	BPN-SAS-217HQ	1	Support 24x2.5ö SAS/SATA hard drives
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