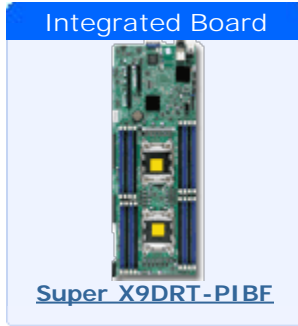


# SuperServer 2027PR-DTFR



Available Colors:      Black     

## Coming Soon

### Key Features

Two **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 LRDIMM, 512GB ECC RDIMM, up to 1866MHz; 16x DIMM sockets
3. 1x PCI-E 3.0 x16 Low-profile slot; 1x PCI-E 3.0 x8 Low-profile slot
4. Intel® i350 Dual port GbE LAN
5. Integrated IPMI 2.0 with KVM and Dedicated LAN
6. Single port IB (FDR, 56 Gbps), w/ QSFP connector
7. 8x Hot-swap 2.5" SATA HDD Bays
8. 1280W 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-2027PR-DTFR      ■ SuperServer 2027PR-DTFR (Black)

### Motherboard

Super X9DRT-PIBF

### 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

### System Memory (per Node)

### Chassis

Form Factor      ■ 2U Rackmount

Model      ■ CSE-217HD+-R1K28B

### Dimensions

Width      ■ 17.25" (438mm)

Height      ■ 3.47" (88mm)

Depth      ■ 28.5" (724mm)

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

Memory Capacity	<ul style="list-style-type: none"> <li>16x 240-pin DDR3 DIMM sockets</li> <li>Supports up to 1TB DDR3 ECC LRDIMM</li> <li>Supports 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 and 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® C606 Chipset</li> </ul>
Infiniband	<ul style="list-style-type: none"> <li>Mellanox ConnectX-3 FDR Infiniband 56Gb/s Controller</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) w/ RAID 0, 1, 10</li> <li>SATA2 (3Gbps) w/ RAID 0, 1, 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)

ACHI SATA	<ul style="list-style-type: none"> <li>2x SATA3 (6Gbps) ports</li> <li>4x SATA2 (3Gbps) ports</li> </ul>
SCU SATA	<ul style="list-style-type: none"> <li>2x SATA2 (3Gbps) ports</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>
Infiniband	<ul style="list-style-type: none"> <li>1 external QSFP Infiniband connector</li> </ul>
USB	<ul style="list-style-type: none"> <li>2x USB 2.0 ports total (2x rear)</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>

#### Expansion Slots (per Node)

PCI-Express	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 (x16) Low-profile slot</li> <li>1x PCI-E 3.0 (x8) Low-profile slot</li> </ul>
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#### Drive Bays (per Node)

Hot-swap	<ul style="list-style-type: none"> <li>8x 2.5" Hot-swap 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

1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2

AC Input	<ul style="list-style-type: none"> <li>1000W Output @ 100-140V, 12-8A, 50-60Hz</li> <li>1280W Output @ 180-240V, 8-6A, 50-60Hz</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>1000W: +12V/83A; +5Vsb/4A</li> <li>1280W: +12V/106.7A, +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-PIBF	2	Super X9DRT-PIBF Motherboard
	CSE-217HD+-R1K28B	1	2U Chassis
Backplane	BPN-SAS3-217HD	1	,RoHS/REACH,PBF 2U Twin Backplane, support 24 SAS3/SATA3 HDD (2.5") with Hot Swapping. Per node for 12 HDDs. PWM fan control, HDD spin up and failure LED supported.
Heatsink / Retention	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply