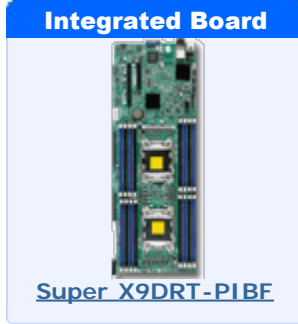


SuperServer 2027PR-HTFR



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 LRDIMM, 512GB ECC RDIMM, up to 1866MHz; 16x DIMM sockets
3. 1x PCI-E 3.0 x16 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. 6x 2.5" Hot-swap SAS/SATA HDD Bays
8. 2000W 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-HTFR** ■ SuperServer 2027PR-HTFR (**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)

- Memory**
- 16x 240-pin DDR3 DIMM sockets
 - Supports up to 1TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 2U Rackmount

Model ■ **CSE-217HQ+-R2K02B**

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

Expansion Slots (per Node)

Capacity	<ul style="list-style-type: none"> Supports up 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 and 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
Infiniband	<ul style="list-style-type: none"> Mellanox ConnectX-3 FDR Infiniband 56Gb/s Controller
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) w/ RAID 0, 1, 10 SATA2 (3Gbps) w/ RAID 0, 1, 10
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW

Input / Output (per Node)

SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
Infiniband	<ul style="list-style-type: none"> 1 external QSFP Infiniband connector
USB	<ul style="list-style-type: none"> 2x USB 2.0 ports total (2x rear)
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

PCI-Express ■ 1x PCI-E 3.0 x16 Low-profile slot

Drive Bays (per Node)

Hot-swap ■ 6x 2.5" Hot-swap SAS/SATA HDD trays

System Cooling

Fans ■ 4x 8cm heavy duty PWM fans with optimal fan speed control

Switching Power Supply

2000W Redundant Power Supplies with I²C & PMBus

AC Input

- 1100W Output @ 100-120V, 12.7-10.5A, 50-60Hz
- 1400W Output @ 120-140V, 13.5-11.5A, 50-60Hz
- 1800W Output @ 200-220V, 10.0-9.5A, 50-60Hz
- 1980W Output @ 220-230V, 10.0-9.8A, 50-60Hz
- 2000W Output @ 230-240V, 10.0-9.8A, 50-60Hz

5Vsb 4A

I²C Remote Monitoring FRU Data / SMBus / PMBus

Certification



Platinum Certified
(Cert. in progress)

System BIOS

BIOS Type ■ 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features

- Plug and Play (PnP)
- APM 1.2
- PCI 2.2
- ACPI 1.0 / 2.0
- USB Keyboard support
- SMBIOS 2.3
- UEFI

Operating Environment / Compliance

RoHS ■ RoHS Compliant

Environmental Spec.

- 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-PIBF	4	Super X9DRT-PIBF Motherboard
	CSE-217HQ+-R2K02B	1	2U Chassis
Backplane	BPN-SAS3-217HQ	1	,RoHS/REACH,PBF 2U Twin Square Backplane, support 24 SAS3/SATA3 HDD (2.5") with Hot Swapping. Per node for 6 HDDs. PWM fan control, HDD spin up and failure LED supported.
Backplane	BPN-ADP-6SATA3P-O-P	4	Backplan adapter card; 6SATA ports,RoHS/REACH,PBF
Riser Card	RSC-R1UTP-E16R-O-P	4	,RoHS/REACH,PBF
Heatsink / Retention	SNK-P0057PS	4	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0047PSM	4	1U Passive Front CPU Heat Sink w/ a Middle Air Channel for X9, X10 2U Twin^2+ and Twin Pro^2 Series Servers
Power Supply	PWS-2K02P-1R	2	2000W redundant platinum power supply

Optional Parts List

	Part Number	Qty	Description
Software	SFT-OOB-LIC	-	BIOS management capabilities
Software	SFT-DCMS-Single	-	Remote Management - Datacenter Package