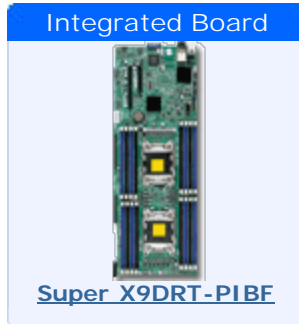


SuperServer 6027PR-HC1FR



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
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. 3x 3.5" Hot-swap SAS/SATA HDD Bays
8. LSI 3108 SAS3 controller (6 ports); RAID 0, 1, 5, 6, 10, 50, 60
9. 2000W Redundant Power Supplies Titanium Level (96%)

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

Specifications

Product SKUs

SYS-6027PR-HC1FR ■ SuperServer 6027PR-HC1FR (Black)

Motherboard

Super X9DRT-PIBF

Processor/Cache

CPU ■ Dual Socket R (LGA 2011)
 ■ Intel® Xeon® processor E5-2600 (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 slots
 ■ Supports up to 1TB DDR3 ECC LRDIMM

Chassis

Form Factor ■ 2U Rackmount

Model ■ CSE-827HQ+-R2K04B

Dimensions

Width ■ 17.25" (438mm)

Height ■ 3.47" (88mm)

Depth ■ 30.5" (774mm)

Weight ■ Gross Weight: 90 lbs (40.9kg)
 ■ Net Weight: 72 lbs (32.7 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ UID button

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

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
SAS	<ul style="list-style-type: none"> LSI 3108 SAS3 (12Gbps) controller; RAID 0, 1, 5, 6, 10, 50, 60 support Note: In order to support the LSI RAID Controllers, both CPU socket must be populated
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)

SAS	<ul style="list-style-type: none"> 3x SAS3 (12Gbps) 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 (internal)
Others	<ul style="list-style-type: none"> 1x CacheVault support on the daughter card 1x <u>SATADOM</u> support on the motherboard

Expansion Slots (per Node)

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

Hot-swap	<ul style="list-style-type: none"> 3x 3.5" Hot-swap SAS/SATA 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 (76mm Width)

2000W Redundant Power Supplies with PMBus

Total Output Power	<ul style="list-style-type: none"> 1000W/2000W
Dimension (W x H x L)	<ul style="list-style-type: none"> 76 x 40.4 x 336 mm
Input	<ul style="list-style-type: none"> 100-127 Vac / 12-9.5 A / 50-60 Hz 200-220 Vac / 10-9.5 A / 50-60 Hz 220-230 Vac / 10-9.8 A / 50-60 Hz 230-240 Vac / 10-9.8 A / 50-60 Hz 200-240 Vac / 11.8-10 A / 50-60 Hz (UL/cUL only)
+12V	<ul style="list-style-type: none"> Max: 83.3A & Min: 0A (100-127 Vac) Max: 150A & Min: 0A (200-220 Vac) Max: 165A & Min: 0A (220-230 Vac) Max: 166.7A & Min: 0A (230-240 Vac) Max: 166.7A & Min: 0A (200-240 Vac)(UL/cUL only)
+5Vsb	<ul style="list-style-type: none"> Max: 1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 27 Pairs Gold Finger Connector

Certification



UL/cUL/CB/BSMI/CE/CCC Titanium Level
[[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 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

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-PIBF	4	Super X9DRT-PIBF Motherboard
	CSE-827HQ+-R2K04B	1	2U Chassis
Backplane	BPN-SAS3-827HQ	1	12x 3.5" hard drive backplane; supports 3.5" Twin Pro Chassis; SAS-3 12Gb/s compliance, new Molex 64-pin receptacles, PWM fan control and Power delay control on HDD spin up,RoHS/REACH,PBF
Backplane	BPN-ADP-S3108L-H6IRP	4	LSI 3108, SAS 12Gbps (x6 internal)
Riser Card	RSC-R1UTP-E16R	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

Optional Parts List

	Part Number	Qty	Description
SuperCap Kit	BTR-CV3108-TP1	-	LSI 3108 CacheVault kit for TwinPro
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)