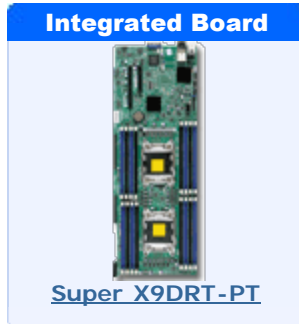


# SuperServer 6027PR-HC1TR



## 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® X540 Dual port 10GBase-T
5. Integrated IPMI 2.0 with KVM and Dedicated LAN
6. 3x 3.5" Hot-swap SAS/SATA HDD Bays
7. LSI 3108 SAS3 controller (6 ports); RAID 0, 1, 5, 6, 10, 50, 60
8. 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-HC1TR** ■ SuperServer 6027PR-HC1TR (**Black**)

### Motherboard

#### Super X9DRT-PT

### 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 Capacity**
- 16x 240-pin DDR3 DIMM slots
  - Supports up to 1TB DDR3 ECC LRDIMM
  - Supports up to 512GB DDR3 ECC Registered memory (RDIMM)

### 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

### Expansion Slots (per Node)

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

<b>Memory Type</b>	<ul style="list-style-type: none"> <li>1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.5 V and 1.35 V</li> </ul>
<b>Error Detection</b>	<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

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 (12Gbps) controller; RAID 0, 1, 5, 6, 10, 50, 60 support</li> <li>Note: In order to support the LSI RAID Controllers, both CPU socket must be populated</li> </ul>
<b>IPMI</b>	<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>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® X540 Dual port 10GBase-T</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output (per Node)

<b>SAS</b>	<ul style="list-style-type: none"> <li>3x SAS3 (12Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 10GBase-T ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 2.0 ports total (2x rear)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port / 1 Header (internal)</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1x CacheVault support on the daughter card</li> <li>1x <u>SATADOM</u> support on the motherboard</li> </ul>

#### Drive Bays (per Node)

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>3x 3.5" Hot-swap SAS/SATA HDD trays</li> </ul>
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#### System Cooling

<b>Fans</b>	<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 (76mm Width)

2000W Redundant Power Supplies with PMBus

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

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
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<b>BIOS Features</b>	<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>
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#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
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<b>Environmental Spec.</b>	<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>
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X9DRT-PT	4	Super X9DRT-PT Motherboard
	CSE-827HQ+-R2K04B	1	2U Chassis
<b>Backplane</b>	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
<b>Backplane</b>	BPN-ADP-S3108L-H6IRP	4	LSI 3108, SAS 12Gbps (x6 internal)
<b>Riser Card</b>	RSC-R1UTP-E16R	4	,RoHS/REACH,PBF
<b>Heatsink / Retention</b>	SNK-P0057PS	4	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Heatsink / Retention</b>	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
<b>SuperCap Kit</b>	BTR-CV3108-TP1	-	LSI 3108 CacheVault kit for TwinPro
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)