

# SuperServer 1027R-73DBRF



## Integrated Board



**Super X9DRD-7LN4E**

Available Colors:

Black



## Key Features

1. Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
3. Expansion slot: 1 (x8) PCI-E 3.0
4. I/O Support: Intel® i350 GbE LAN (4x ports), 9x USB 2.0 ports (4x rear, 4x via headers, 1x Type A)
5. 10x Hot-swap 2.5" SAS/SATA HDD bays; SAS2 support via LSI 2308
6. 700W Redundant Power Supplies Gold Level Certified

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

## Specifications

### Product SKUs

SYS-1027R-73DBRF	<ul style="list-style-type: none"> <li>SuperServer 1027R-73DBRF (Black)</li> </ul>
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### Motherboard

Super X9DRD-7LN4E

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>Dual Socket R (LGA 2011)</li> <li>Supports up to two Intel® Xeon® 64-bit processor(s) of the same type below: Intel® Xeon® processor E5-2600 60W - 135W</li> </ul>
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Cache	<ul style="list-style-type: none"> <li>Up to 20MB</li> </ul>
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System Bus	<ul style="list-style-type: none"> <li>QPI up to 8 GT/s</li> </ul>
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### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>16x 240-pin DDR3 DIMM sockets</li> <li>Supports up to 512 GB DDR3 ECC Registered memory (RDIMM)</li> <li>Supports up to 128 GB DDR3 ECC Un-Buffered memory (UDIMM)</li> </ul>
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Memory Type	<ul style="list-style-type: none"> <li>1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
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### Chassis

Form Factor	<ul style="list-style-type: none"> <li>1U Rackmount</li> </ul>
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Model	<ul style="list-style-type: none"> <li>CSE-116TQ-R700CB</li> </ul>
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### Dimensions

Width	<ul style="list-style-type: none"> <li>17.2" (437mm)</li> </ul>
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Height	<ul style="list-style-type: none"> <li>1.7" (43mm)</li> </ul>
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Depth	<ul style="list-style-type: none"> <li>23.5" (597mm)</li> </ul>
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Gross Weight	<ul style="list-style-type: none"> <li>42 lbs (19.05kg)</li> </ul>
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Available Colors	<ul style="list-style-type: none"> <li>Black</li> </ul>
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### Front Panel

Buttons	<ul style="list-style-type: none"> <li>Power On/Off button</li> <li>UID button</li> </ul>
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LEDs	<ul style="list-style-type: none"> <li>Power status LED</li> <li>HDD activity LED</li> <li>2x Network activity LEDs</li> <li>Universal Information (UID) LED</li> </ul>
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### Expansion Slots

- 1 (x8) PCI-E 3.0 slot

PCI-Express

(Both CPUs need to be installed for full access to PCI-E slots. See manual for details.)

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, 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® C602J chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1, 5, 10</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS2 (6Gbps) via LSI 2308</li> <li>SW RAID 0, 1, 10 support</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>Renesas SH7757 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Quad 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 RTL8211E PHY (dedicated IPMI)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output

Serial ATA	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>4x SATA 2.0 ports (3Gbps)</li> </ul>
SAS	<ul style="list-style-type: none"> <li>8x SAS ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>9x USB 2.0 ports total (4x rear + 4x via header + 1x Type A)</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>

#### Drive Bays

Hot-swap    

- 10x Hot-swap 2.5" SAS/SATA HDD trays

#### Backplane

SAS / SATA HDD Backplane

#### System Cooling

Fans    

- 6x 40x56mm Counter-rotating PWM fans

#### Power Supply

700W/750W Redundant AC-DC high-efficiency power supply with PMBus and I2C

AC Voltage    

- 700W: 100 - 140 V, 50-60 Hz, 8.5-6 Amp
- 750W: 180 - 240V, 60-50 Hz, 5-3.8 Amp

DC Output +5V standby    

- 3 Amp

DC Output +12V    

- 700W: 58 Amp @ 100-140V
- 750W: 62 Amp @ 180-240V

With Power Distributor    

- +5V: 25 Amp
- +3.3V: 12 Amp
- 12V: 0.6 Amp

Certification



[Gold Certified](#)

#### 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 / 3.0 / 4.0
- BIOS resume hot keys
- 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-X9DRD-7LN4F	1	Super X9DRD-7LN4F Motherboard
	CSE-116TQ-R700CB	1	1U Chassis
Air Shroud	MCP-310-19010-0N	1	SC815/SC113/SC116, DP X9DRD-7LN4F, X9 Malar Air Shroud, 12" x 13" MB
Backplane	BPN-SAS-116TQ	1	BPN-SAS-116TQ
Cable 1	CBL-0097L-03	1	lpass to 4 SATA, 50 cm, W/50cm SB, S, 30AWG
Cable 2	CBL-0157L-01	1	8 pin to 8 pin ribbon SGPIO cable with tube, 61.5cm, PBF
Cable 3	CBL-0230L	2	65CM SATA ROUND S-RA PBF. 26AWG
Cable 4	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 5	CBL-0476L	1	IPASS to 4 SATA, 55,45,35,30, w/55 SB, 30AWG
Part(s)	MCP-260-00041-0N	1	1U I/O shield for X9 socket R server MB with Gasket
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4
Heatsink / Retention	SNK-P0047PS	2	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Fan	FAN-0101L4	2	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Fan (come w/ chassis)	FAN-0101L4	4	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808