

# Supermirco SuperServer SYS-6027TR-H71QRF 2U Twin^2 DP 4x3LFF LSI 2108 RED PSU

**Part number: SYS-6027TR-H71QRF**



Chassis Form Factor	Rack 2U
# of systems (nodes)	4
CPU Socket	LGA 2011 (Socket R)
# of CPU sockets (per node)	2
Supported CPU's	Intel Xeon E5-2600v2 Intel Xeon E5-2600
Max CPU TDP	135 W
Chipset	Intel C602
Memory Type	DDR3 ECC LRDIMM DDR3 ECC RDIMM
Memory Speed	1866 MHz 1600 MHz 1333 MHz 1066 MHz 800 MHz
# of DIMM's (per node)	8
Max Memory Size (per node)	512 GB
Integrated GPU	Matrox G200eW
# of 3.5 hot-swap bays (per node)	3
Backplanes	SAS2/SATA3
# of PCIe x16 3.0 (per node)	1
# of USB Ports (per node)	2 x USB 2.0 (rear) 1 x USB 2.0 Type A
# of SATA Ports (per node)	7
Storage Controllers	2 x AHCI iSATA 6Gb/s 5 x sSATA 3Gb/s LSI 2108 6Gb/s
# of SAS Ports (per node)	8
Integrated RAID	0,1,5,10
Hardware RAID	0,1,5,6,10,50,60
# of Serial Ports (per node)	1 x Fast UART 16550 (header)
# of 1GbE Ports (per node)	2 x RJ45
Network Controllers	Intel i350 Dual Port Gigabit Ethernet
# of QSFP Infiniband (per node)	1
Infiniband	1 x QDR 40Gbps
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Nuvoton WPCM450
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	1620 W
PSU Certification	80+ Platinum

## Product SKUs

SYS-6027TR-H71QRF • SuperServer 6027TR-H71QRF (**Black**)

## Motherboard

[Super X9DRT-HIBQF](#)

## 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

Memory Capacity

- 8x 240-pin DDR3 DIMM slots
- Up to 512GB DDR3 ECC LRDIMM
- Up to 256GB DDR3 ECC Registered memory (RDIMM)

Memory Type

- 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes

- 32GB, 16GB, 8GB, 4GB, 2GB, 1GB

Memory Voltage

- 1.5 V, 1.35 V

Error Detection

- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

## On-Board Devices

Chipset

- Intel® C602 Chipset

Infiniband

- Mellanox ConnectX-3 QDR Infiniband 40Gbps Controller

SAS

- Broadcom 2108 SAS (6Gbps) w/ Hardware RAID support
- RAID 0, 1, 5, 6, 10, 50, 60 support
- Note: In order to support the Broadcom RAID Controllers, both CPU socket must be populated

SATA

- SATA 2.0 & 3.0 with RAID 0, 1, 5, 10
- Support for Intelligent Platform Management Interface v.2.0

IPMI

- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Nuvoton WPCM450 BMC

Network Controllers

- 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

- Matrox G200eW

## Input / Output (per Node)

Serial ATA

- 2x SATA 3.0 ports (6Gbps)

SAS

- 5x SATA 2.0 ports (3Gbps)
- 8x SAS2 ports (6Gbps)

LAN

- 2x RJ45 Gigabit Ethernet LAN ports
- 1x RJ45 Dedicated IPMI LAN port

USB

- 3x USB 2.0 ports total (2x rear + 1x Type A)

VGA

- 1x VGA port

Serial Port / Header

- 1x Fast UART 16550 port / 1 Header

Infiniband

- 1 external QSFP Infiniband connector



## Chassis

Form Factor

- 2U Rackmount

Model

- **CSE-827HQ-R1620B**

## 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
- Power status LED
- HDD activity LED

LEDs

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

## Expansion Slots (per Node)

PCI-Express

- 1x PCI-E 3.0 (x16) Low-profile slot

## Drive Bays (per Node)

Hot-swap

- 3x 3.5" Hot-swap SATA3/SAS2 HDD trays

## System Cooling

Fans

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

## Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input

- 1000W Output @ 100-120V, 12-10A, 50-60Hz
- 1200W Output @ 120-140V, 12-10A, 50-60Hz
- 1620W Output @ 180-240V, 10.5-8A, 50-60Hz

DC Output

- 1000W: +12V/84A; +5Vsb/4A
- 1200W: +12V/100A; +5Vsb/4A
- 1620W: +12V/150A; +5Vsb/4A

Certification   **Platinum Certified**  
**[ [Test Report](#) ]**

## System BIOS

BIOS Type

- 128Mb SPI Flash EEPROM with AMI BIOS
- Plug and Play (PnP)
- APM 1.2
- PCI 2.2

BIOS Features

- 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)

Visit us for more info:

<https://www.superstorage.pl/supermirco-superserver-sys-6027tr-h71qrf-2u-twin2-dp-4x3lff-lsi-2108-red-psu-p-219.html>