Supermirco SuperServer SYS-6027TR-H70RF 2U Twin^2 DP 4x3LFF LSI 2008 RED PSU

Part number: SYS-6027TR-H70RF

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 Patsburg
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
# of SAS Ports (per node)	8
Storage Controllers	2 x AHCI iSATA 6Gb/s 5 x sSATA 3Gb/s LSI 2008 6Gb/s
Integrated RAID	0,1,5,10
Hardware RAID	0,1,10
# 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
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Nuvoton WPCM450
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	1620W
PSU Certification	80+ Platinum
Chassis Dimensions	438 x 88 x 724mm

Product SKUs

SYS-6027TR-H70RF • SuperServer 6027TR-H70RF (**Black**)

Motherboard

Super X9DRT-HF

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
SAS	• Broadcom 2008 SAS (6Gbps) • RAID 0, 1, 10 support • (Optional: AOC-SAS2-RAID5-KEY) RAID 5 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
IPMI	• 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	• 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) • 5x SATA 2.0 ports (3Gbps)
SAS	• 8x SAS 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

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
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

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
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)

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