

Supermicro SuperServer SYS-6029TP-HC1R 2U Twin^2 DP 4x3LFF LSI 3108 RED PSU

Part number: SYS-6029TP-HC1R



Chassis Form Factor	Rack 2U
# of systems (nodes)	4
CPU Socket	LGA 3647 (Socket P)
# of CPU sockets (per node)	2
Supported CPU's	Intel Xeon Scalable Processors
Max CPU TDP	165 W
Chipset	Intel C621
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC RDIMM
Memory Speed	2666 MHz 2400 MHz 2133 MHz
# of DIMM's (per node)	16
Max Memory Size (per node)	2048 GB
Integrated GPU	Aspeed AST2500
# of 3.5 hot-swap bays (per node)	3
# of PCIe x16 3.0 (per node)	2
# of USB Ports (per node)	2 x USB 3.0 (rear)
# of SAS Ports (per node)	3
Storage Controllers	LSI 3108 12Gb/s
Integrated RAID	0,1,5
# of Serial Ports (per node)	1 x Fast UART 16550 (header)
Network Controllers	SIOM Networking AOC Matrix
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2500
Power Supply	Redundant
PSU Wattage	2200W
PSU Certification	80+ Titanium
Chassis Dimensions	438 x 88 x 774mm

Product SKUs

SYS-6029TP-HC1R • SuperServer 6029TP-HC1R (Black)

Motherboard

Super X11DPT-PS

Processor/Cache (per Node)

- CPU
- Cores
- Dual Socket P (LGA 3647)
 - Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
 - Support CPU TDP 70-165W with IVR
 - Up to 28 Cores with Intel® HT Technology

System Memory (per Node)

- Memory Capacity
- Memory Type
- 16 DIMM slots
 - Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz
 - 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

- Chipset
- SAS
- Network Controllers
- IPMI
- Graphics
- Intel® C621 chipset
 - Broadcom 3108 SAS3 (12Gbps) controller; RAID 0, 1, 5 support
 - Must bundle with at least one **SIOM or network card per node**
 - Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 - ASPEED AST2500 BMC

Input / Output (per Node)

- SAS
- LAN
- USB
- VGA
- Serial Port / Header
- Others
- 3 SAS (12Gbps) ports
 - 1 RJ45 Dedicated IPMI LAN port
 - 2 USB 3.0 ports total (rear)
 - 1 VGA port
 - 1 Fast UART 16550 port / 1 Header (internal)
 - 2 **SATADOM** support on the motherboard

System BIOS

- BIOS Type
- AMI 32MB SPI Flash ROM

Management

- Software
- Power Configurations
- Intel® Node Manager
 - IPMI 2.0**
 - KVM with dedicated LAN
 - NMI
 - SSM, SPM, SUM**
 - SuperDoctor® 5**
 - Watchdog
 - ACPI Power Management

PC Health Monitoring

- CPU
- FAN
- Temperature
- Omni-Path Fabric CPUs
- Monitors for CPU Cores, Chipset Voltages, Memory.
 - 5+1 Phase-switching voltage regulator
 - Fans with tachometer monitoring
 - Status monitor for speed control
 - Pulse Width Modulated (PWM) fan connectors
 - Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors
 - Do not support

Chassis

- Form Factor
- Model
- 2U Rackmount
 - CSE-827HQ+-R2K20BP2**

Dimensions and Weight

- Width
- Height
- Depth
- Weight
- Available Colors
- 17.25" (438mm)
 - 3.47" (88mm)
 - 30.5" (774mm)
 - Gross Weight: 90 lbs (40.9kg)
 - Net Weight: 72 lbs (32.7 kg)
 - Black

Front Panel

- Buttons
- LEDs
- Power On/Off button
 - UID button
 - Power status LED
 - HDD activity LED
 - Network activity LEDs
 - Universal Information (UID) LED

Expansion Slots (per Node)

- PCI-Express
- 2 PCI-E 3.0 x16 Low-profile slots
 - 1 SIOM card support
 - Note: Must bundle with Network Card
 - (With only one CPU installed, **SXB2 M.2 and SXB4 riser card slots not function**)

Drive Bays (per Node)

- Hot-swap
- 3 Hot-swap 3.5" SAS/SATA HDD trays

System Cooling

- Fans
- 4 Heavy duty 8cm PWM fans with optimal fan speed control

Power Supply

- 2200W Redundant Power Supplies with PMBus
- Total Output Power and Input
- AC Input Frequency
- Dimension (W x H x L)
- +12V
- 5VSB
- Output Type
- 1200W with Input 100-127Vac
 - 1800W with Input 200-220Vac
 - 1980W with Input 220-230Vac
 - 2090W with Input 230-240Vac
 - 2200W with Input 220-240Vac (for UL/cUL use only)
 - 2090W with Input 230-240Vdc (for CCC only)
 - 50-60Hz
 - 76 x 40 x 336 mm
 - Max: 100A / Min: 0A (100-127Vac)
 - Max: 150A / Min: 0A (200-220Vac)
 - Max: 165A / Min: 0A (220-230Vac)
 - Max: 174.17A / Min: 0A (230-240Vac)
 - Max: 183.3A / Min: 0A (220-240Vac)
 - Max: 1A / Min: 0A
 - Backplanes (gold finger)



- Certification
- UL/cUL/CB/BSMI/CE/CCC
 - Titanium Level**
 - [Cert. in progress]**

Operating Environment

- RoHS
- Environmental Spec.
- RoHS Compliant
 - Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
 - Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
 - Operating Relative Humidity: 8% to 90% (non-condensing)
 - Non-operating Relative Humidity: 5% to 95% (non-condensing)

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<https://www.superstorage.pl/supermicro-superserver-sys-6029tp-hc1r-2u-twin2-dp-4x3lff-lsi-3108-red-ps-u-p-3427.html>