

Supermicro SuperServer SYS-1029TP-DC1R 1U Twin DP 2x4SFF LSI 3108 RED PSU

Part number: SYS-1029TP-DC1R



Chassis Form Factor	Rack 1U
# of systems (nodes)	2
CPU Socket	LGA 3647 (Socket P)
# of CPU sockets (per node)	2
Supported CPU's	Intel Xeon Scalable 1st Gen Intel Xeon Scalable 2nd Gen
Max CPU TDP	145 W
Chipset	Intel C621
Memory Type	DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2933 MHz 2666 MHz 2400 MHz 2133 MHz
# of DIMM's (per node)	16
Max Memory Size (per node)	2048 GB
Integrated GPU	Aspeed AST2500
# of 2.5 hot-swap bays (per node)	4
Backplanes	SAS3
# of PCIe x16 3.0 (per node)	2
# of USB Ports (per node)	2 x USB 3.0 (rear)
# of SATA Ports (per node)	10
# of SAS Ports (per node)	4
Storage Controllers	4 x AHCI iSATA 6Gb/s 6 x sSATA 6Gb/s LSI 3108 12Gb/s
Hardware RAID	0,1,5,6,10,50,60
# of Serial Ports (per node)	1 x Fast UART 16550 (header)
Network Controllers	SIOM Networking AOC Matrix
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Aspeed AST2500
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant 1+1
PSU Wattage	1000 W
PSU Certification	80+ Titanium
Chassis Dimensions	437 x 88 x 718 mm

Product SKUs

SYS-1029TP-DC1R • SuperServer 1029TP-DC1R (Black)

Motherboard

Super X11DPT-PS

Processor/Cache

CPU

- Dual Socket P (LGA 3647)
- Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
- Support CPU TDP 70-145W

Cores

- Up to 28 Cores with Intel® HT Technology

System Memory

Memory Capacity

- 16 DIMM slots
- Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz

Memory Type

- 2666/2400/2133MHz ECC DDR4 SDRAM

On-Board Devices

Chipset

- Intel® C621 chipset
- Broadcom 3108 SAS3 (12Gbps) controller;
- RAID 0, 1, 5, 6, 10, 50, 60 support
- Optional SuperCap
- Must bundle with at least one **SIOM 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

SAS

Network Controllers

IPMI

Graphics

Input / Output (per Node)

SAS

- 4 SAS3 (12Gbps) ports

LAN

- 1 RJ45 Dedicated IPMI LAN port

USB

- 2 USB 3.0 ports (rear)

VGA

- 1 VGA port

Serial Port / Header

- 1 Fast UART 16550 port / 1 Header (internal)

Others

- 2 **SuperDOM** support on the motherboard

System BIOS

BIOS Type

- AMI 32MB SPI Flash ROM

Management

Software

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

Power Configurations • ACPI Power Management

PC Health Monitoring

CPU

- Monitors for CPU Cores, Chipset Voltages, Memory.
- 4+1 Phase-switching voltage regulator

FAN

- Fans with tachometer monitoring
- Status monitor for speed control
- Pulse Width Modulated (PWM) fan connectors

Temperature

- Monitoring for CPU and chassis environment
- Thermal Control for fan connectors

Chassis

Form Factor • 1U Rackmount

Model

- **CSE-809H-R1K05P2**

Dimensions and Weight

Width

- 17.2" (437mm)

Height

- 1.7" (88mm)

Depth

- 28.25" (718mm)

Package

- 29.6" (W) x 8" (H) x 38.4" (L)

Weight

- Gross Weight: 48.1 lbs (21.9 kg)
- Net Weight: 33.5 lbs (15.2 kg)

Front Panel

Buttons

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

LEDs

Expansion Slots (per Node)

PCI-Express

- 2 PCI-E 3.0 x16 Low-profile slots
- 1 SIOM card support

Note: Must bundle with **SIOM**
(With only one CPU installed, SXB2 M.2 and SXB4 riser card slots not function)

Drive Bays (per Node)

Hot-swap

- 4 Hot-swap 2.5" SAS3/SATA3 drive bays

Backplane

SAS3 backplane

System Cooling

Fans

- 3 Heavy duty counter rotating fans with air shroud and optimal fan speed control

PowerStick Power Supply

1000W 1U Redundant Power Supplies with PMBus

Total Output Power

- 800W/1000W

Dimension (W x H x L)

- 38 x 40 x 360 mm

Input

- 100-127Vac / 9-7.5A / 50-60Hz
- 200-240Vac / 6-5A / 50-60Hz
- Max: 66.7A / Min: 0A (100-127Vac)
- Max: 83A / Min: 0A (200-240Vac)

+12V

- Max: 4A / Min: 0A

+5Vsb

- Max: 4A / Min: 0A

Output Type

- Gold Finger Connector (16 Power Pin, 14 Signal Pin)

UL/cUL/CB/BSMI/CE/CCC
Titanium Level
(Cert. in progress)

Certification

Operating Environment

RoHS

- 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)

Environmental Spec.

- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

<https://www.superstorage.pl/supermicro-superserver-sys-1029tp-dc1r-1u-twin-dp-2x4sff-lsi-3108-red-psu-p-3396.html>