

## SuperServer 1029TP-DTR



### Integrated Board



[./products/motherboard/Xeon/C620/X11DPT-](#)

[PS.cfm](#)

[Super X11DPT-PS](#) [./products/motherboard/Xeon/C620/X11DPT-PS.cfm](#)

**Views:** | [Angled View](#) ([./a\\_images/products/views/1029TP-DTR\\_angle.jpg](#)) |  
| [Top View](#) ([./a\\_images/products/views/1029TP-DTR\\_top.jpg](#)) |  
| [Front View](#) ([./a\\_images/products/views/1029TP-DTR\\_front.jpg](#)) | [Rear](#)  
[View](#) ([./a\\_images/products/views/1029TP-DTR\\_rear.jpg](#)) |

## Key Applications / Features

- Mission-critical applications
- High Availability Storage Appliance Platform

Two hot-pluggable systems (nodes) in a 1U form factor. Each node supports the following:

1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)<sup>†</sup>
2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM
3. 2 PCI-E 3.0 x16 slots
4. Flexible Networking support via SIOM; Dedicated IPMI 2.0 LAN
5. 4 Hot-swap 2.5" SATA3 drive bays
6. 2 SuperDOM onboard or optional 2 M.2 carrier
7. Up to 1000W Redundant Power Supplies **Titanium Level (96%)**

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#)

[Tested M.2 List](#) ([./en/support/resources/m2ssd?SystemID=86244&ProductName=SS1029TP-DTR](#)).

### Manuals

[OS Certification Matrix](#) ([./en/support/resources/certification/SYS-1029TP-DTR](#)).

[Quick-References Guide](#) | [Drive Options](#)

[Tested SIOM](#) ([./en/support/resources/aoc/siom?show=SELECT&type=TwinPro](#)).

[Network Card \(AOC\) Matrix](#) ([./en/support/resources/aoc/standard?show=SELECT&type=Twin](#)).

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

## Specifications

## Product SKUs

### SYS-1029TP-DTR

SuperServer 1029TP-DTR (Black)

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## Motherboard (Two per System)

### Super X11DPT-PS

(</products/motherboard/Xeon/C620/X11DPT-PS.cfm>)

## Processor (per Node)

### CPU

Dual Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors<sup>†</sup>,

Dual UPI up to 10.4GT/s

Support CPU TDP 70-145W (Consult with SYS PM for higher CPU TDP Supports)

### Cores

Up to 28 Cores

### Note

<sup>\*</sup>Processors ending N or S are optimized for networking and storage applications. Customer need POC their application and observe any thermal throttling before large deployment.

### Note

<sup>‡</sup> BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

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## System Memory (per Node)

### Memory Capacity

16 DIMM slots

Up to 4TB 3DS ECC DDR4-2933MHz<sup>†</sup> RDIMM/LRDIMM

### Memory Type

2933<sup>†</sup>/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

### Note

<sup>†</sup> 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

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## On-Board Devices (per Node)

### Chipset

Intel® C621 chipset

### SATA

SATA3 (6Gbps); RAID 0, 1, 5, 10

### Network Controllers

Barebones and Complete System must have at least one [SIOM](#)

([/en/support/resources/aoc/siom?](/en/support/resources/aoc/siom?show=SELECT&type=TwinPro)

[show=SELECT&type=TwinPro](#)), card installed per node

### IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

### Graphics

ASPEED AST2500 BMC

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## Input / Output (per Node)

### SATA

4 SATA3 (6Gbps) ports

### LAN

1 RJ45 Dedicated IPMI LAN port

### USB

2 USB 3.0 ports (rear)

### VGA

1 VGA port

## Chassis

### Form Factor

1U Rackmount

### Model

CSE-809H-R1K05P3

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## 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)

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## Front Panel

### Buttons

Power On/Off button

UID button

### LEDs

Power status LED

HDD activity LED

Network activity LEDs

Universal Information (UID) LED

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## Expansion Slots (per Node)

### PCI-Express

2 PCI-E 3.0 x16 Low-profile slots

1 SIOM card support

Note: Barebones and Complete System must bundle with [SIOM](#)

(</en/support/resources/aoc/siom?show=SELECT&type=T>

**(With only one CPU installed, SXB2 M.2 and SXB4 riser slots not function)**

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## Drive Bays (per Node)

### Hot-swap

4 Hot-swap 2.5" SAS3/SATA3 drive bays

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## Backplane

SAS3 backplane

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## System Cooling

### Fans

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

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## PowerStick Power Supply

1000W 1U Redundant Power Supplies with PMBus

### Total Output Power

800W: 100 – 127Vac

1000W: 200 – 240Vac

### Dimension

(W x H x L)

38 x 40 x 360 mm

### Serial Port / Header

1 Fast UART 16550 port / 1 Header (internal)

### Others

2 [SuperDOM \(/products/nfo/SATADOM.cfm\)](#), support on the motherboard

1 NVMe or 2 SATA M.2 (22x80/60/42 mm) support with option part: AOC-SMG3-2H8M2

M.2 and SuperDOM are for OS boot and they cannot coexist

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## System BIOS

### BIOS Type

AMI 32MB SPI Flash ROM

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## Management

### Software

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](#)

KVM with dedicated LAN

NMI

[SSM \(/solutions/SMS\\_SSM.cfm\)](#), [SPM](#)

[\(/solutions/SMS\\_SPM.cfm\)](#), [SUM](#)

[\(/solutions/SMS\\_SUM.cfm\)](#)

[SuperDoctor® 5 \(/solutions/SMS\\_SD5.cfm\)](#)

Watchdog

### Power Configurations

ACPI Power Management

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## 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

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## Parts List

### Input

100-127Vac / 9-7.5A / 50-60Hz

200-240Vac / 6-5A / 50-60Hz

### +12V

Max: 66.7A / Min: 0A (100-127Vac)

Max: 83A / Min: 0A (200-240Vac)

### +5Vsb

Max: 4A / Min: 0A

### Output Type

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

### Certification



<http://www.plugloadsolutions.com/80PlusPowerSupply>



[id=69&type=2](#)), **Titanium Level**

[ **Test Report**

[\(/products/powersupply/80PLUS/80PLUS\\_PWS](#)

[1R.pdf](#).) ]

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## Operating Environment

### RoHS

RoHS Compliant

### Environmental Spec.

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:

Certain products may not be available in your region

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[Global SKU \(/en/products/SMC\\_global\\_skus\)](#)

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