

SuperServer 1029TP-DTR



Key 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) supports Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
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](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#) ▶ [Tested SIOM](#) ▶ [Tested Network Card \(AOC\)](#)

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

Specifications

Product SKUs

- | | |
|----------------|--|
| SYS-1029TP-DTR | <ul style="list-style-type: none"> ▪ SuperServer 1029TP-DTR (Black) |
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Motherboard

[Super X11DPT-PS](#)

Processor/Cache

- | | |
|-------|--|
| CPU | <ul style="list-style-type: none"> ▪ Dual Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, Dual UPI up to 10.4GT/s ▪ Support CPU TDP 70-145W |
| Cores | <ul style="list-style-type: none"> ▪ Up to 28 Cores with Intel® HT Technology |

System Memory

- | | |
|-----------------|--|
| Memory Capacity | <ul style="list-style-type: none"> ▪ 16 DIMM slots ▪ Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz |
| Memory Type | <ul style="list-style-type: none"> ▪ 2666/2400/2133MHz ECC DDR4 SDRAM |

On-Board Devices

Chassis

- | | |
|-------------|--|
| Form Factor | <ul style="list-style-type: none"> ▪ 1U Rackmount |
| Model | <ul style="list-style-type: none"> ▪ CSE-809H-R1K05P3 |

Dimensions and Weight

- | | |
|---------|--|
| Width | <ul style="list-style-type: none"> ▪ 17.2" (437mm) |
| Height | <ul style="list-style-type: none"> ▪ 1.7" (88mm) |
| Depth | <ul style="list-style-type: none"> ▪ 28.25" (718mm) |
| Package | <ul style="list-style-type: none"> ▪ 29.6" (W) x 8" (H) x 38.4" (L) |
| Weight | <ul style="list-style-type: none"> ▪ Gross Weight: 48.1 lbs (21.9 kg) ▪ Net Weight: 33.5 lbs (15.2 kg) |

Front Panel

- | | |
|---------|--|
| Buttons | <ul style="list-style-type: none"> ▪ Power On/Off button ▪ UID button |
| LEDs | <ul style="list-style-type: none"> ▪ Power status LED ▪ HDD activity LED ▪ Network activity LEDs ▪ Universal Information (UID) LED |

Expansion Slots (per Node)

- 2 PCI-E 3.0 x16 Low-profile slots

Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Barebones and Complete System must bundle with at least one SIOM per node
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC

Input / Output (per Node)

SATA	<ul style="list-style-type: none"> 4 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear)
VGA	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 port / 1 Header (internal)
Others	<ul style="list-style-type: none"> 2 SuperDOM support on the motherboard

System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI 32MB SPI Flash ROM
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Management

Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SSM, SPM, SUM SuperDoctor® 5 Watchdog
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Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

- 1 SIOM card support

Note: Barebones and Complete System 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

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

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: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPT-PS	2	Super X11DPT-PS Motherboards
	CSE-809H-R1K05P3	1	1U Chassis
Backplane	BPN-ADP-6SATA3P	2	Backplan adapter card; 6SATA ports,RoHS/REACH,PBF
Backplane	BPN-SAS3-809H	1	8-port 1U TwinPro SAS3 12Gbps (4 drives per node) backplane, support up to 8x 2.5-inch SAS3/SATA3 HDD/SSD
Riser Card	RSC-P-6	2	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS

Riser Card	RSC-R1UTP-E16R	2	1U RHS TwinPro Riser card with one PCI-E x16 slot
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	SNK-P0067PSM	2	1U Passive CPU Heat Sink with a 26-mm Wide Middle Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K05A-1R	2	1U 1000W Redundant Power Supply Titanium, 38X40X360mm length

Optional Parts List

	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
TPM security module (optional, not included)	AOM-TPM-9671V	1	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor
Carrier Card	AOC-SMG3-2H8M2	-	AOC supports 2280 M.2 form factor SSD (1 NVMe or 2 SATA)
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)