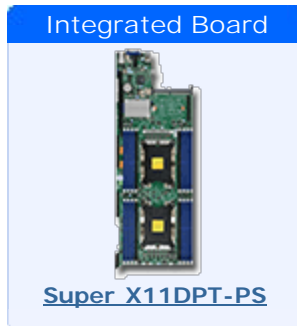


SuperServer 1029TP-DC0R



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" SAS3 drive bays
6. Broadcom 3008 SAS3 controller; SW RAID
7. 2 SuperDOM onboard or optional 2 M.2 carrier
8. 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-DC0R ■ SuperServer 1029TP-DC0R (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

Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-809H-R1K05P3

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

LEDs ■ Power status LED
 ■ HDD activity LED
 ■ Network activity LEDs
 ■ Universal Information (UID) LED

On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SAS	<ul style="list-style-type: none"> Broadcom 3008 SAS3 (12Gbps) controller; SW RAID 0, 1, 10 support
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)	
SAS	<ul style="list-style-type: none"> 4 SAS3 (12Gbps) 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

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
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management

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

Expansion Slots (per Node)	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 Low-profile slots 1 SIOM card support <p>Note: Barebones and Complete System must bundle with SIOM</p> <p>(With only one CPU installed, SXB2 M.2 and SXB4 riser card slots not function)</p>

Drive Bays (per Node)	
Hot-swap	<ul style="list-style-type: none"> 4 Hot-swap 2.5" SAS3/SATA3 drive bays

Backplane	
SAS3 backplane	

System Cooling	
Fans	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 800W/1000W



Dimension (W x H x L)	<ul style="list-style-type: none"> 38 x 40 x 360 mm
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Input	<ul style="list-style-type: none"> 100-127Vac / 9-7.5A / 50-60Hz 200-240Vac / 6-5A / 50-60Hz
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+12V	<ul style="list-style-type: none"> Max: 66.7A / Min: 0A (100-127Vac) Max: 83A / Min: 0A (200-240Vac)
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+5Vsb	<ul style="list-style-type: none"> Max: 4A / Min: 0A
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Output Type	<ul style="list-style-type: none"> Gold Finger Connector (16 Power Pin, 14 Signal Pin)
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Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level (Cert. in progress)
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Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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-S3008L-L6IP	2	LSI 3008, SAS 12Gbps (X6 port inside)
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)