

SuperServer 1029TP-DC1R



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |



Super X11DPT-PS

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)[†]
2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz[†] 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" SAS3 drive bays
6. Broadcom 3108 SAS3 controller; RAID 0, 1, 5, 6, 10, 50, 60 with SuperCap option
7. 2 SuperDOM onboard
8. Up to 1000W Redundant Power Supplies **Titanium Level (96%)**

Drivers & Utilities BIOS IPMI Tested Memory Manuals OS Certification Matrix Quick-References Guide Drive Options Tested SIOM Network Card (AOC) Matrix
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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-DC1R SuperServer 1029TP-DC1R (Black)

Motherboard (Two per System)

Super X11DPT-PS

Processor (per Node)

CPU	Dual Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors [†] ; 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	[†] 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	[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory (per Node)

Memory Capacity	16 DIMM slots Up to 4TB 3DS ECC DDR4-2933MHz [†] RDIMM/LRDIMM
Memory Type	2933 [†] /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro

On-Board Devices (per Node)

Chipset	Intel® C621 chipset
SAS	Broadcom 3108 SAS3 (12Gbps) controller; RAID 0, 1, 5, 6, 10, 50, 60 support Optional SuperCap
Network Controllers	Barebones and Complete System must have at least one SIOM 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

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. SuperDOM is for OS boot.

System BIOS

BIOS Type	AMI 32MB SPI Flash ROM
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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-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

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 (With only one CPU installed, SXB2 M.2 and SXB4 riser card 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

System Cooling

Fans	3 Heavy duty counter rotating fans with air shroud and optimal fan speed control
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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
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	Titanium Level [Test Report]

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-S3108L-H6IRP	2	LSI 3108, SAS 12Gbps (x6 internal)
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
Cable 1	CBL-PWCD-0900	2	PWCD,US/EU/Canada/China/Australia,IEC60320 C14 TO C13,4FT,17AWG
Manual	MNL-2112-QRG	1	1029TP-DTR/DC0R/DC1R Quick Reference Guide
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
SuperCap Kit	BTR-CV3108-TP2	-	Broadcom 3108 CacheVault kit for TwinPro
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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