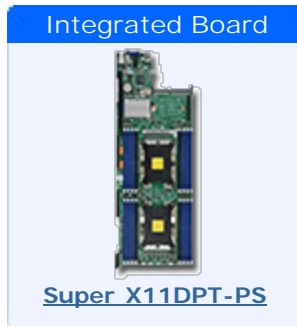


SuperServer 1029TP-DC1R



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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 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%)

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-DC1R	▪ SuperServer 1029TP-DC1R (Black)
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	▪ 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	▪ 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	<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

On-Board Devices

Chipset	<ul style="list-style-type: none">Intel® C621 chipset
SAS	<ul style="list-style-type: none">Broadcom 3108 SAS3 (12Gbps) controller;RAID 0, 1, 5, 6, 10, 50, 60 supportOptional SuperCap
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.2.0IPMI 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
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Management

Software	<ul style="list-style-type: none">Intel® Node ManagerIPMI 2.0KVM with dedicated LANNMISSM, SPM, SUMSuperDoctor® 5Watchdog
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 monitoringStatus monitor for speed controlPulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none">Monitoring for CPU and chassis environmentThermal Control for fan connectors

Expansion Slots (per Node)

PCI-Express	<ul style="list-style-type: none">2 PCI-E 3.0 x16 Low-profile slots1 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>
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Drive Bays (per Node)

Hot-swap	<ul style="list-style-type: none">4 Hot-swap 2.5" SAS3/SATA3 drive bays
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Backplane

SAS3 backplane	
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System Cooling

Fans	<ul style="list-style-type: none">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	<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
Input	<ul style="list-style-type: none">100-127Vac / 9-7.5A / 50-60Hz200-240Vac / 6-5A / 50-60Hz
+12V	<ul style="list-style-type: none">Max: 66.7A / Min: 0A (100-127Vac)Max: 83A / Min: 0A (200-240Vac)
+5Vsb	<ul style="list-style-type: none">Max: 4A / Min: 0A
Output Type	<ul style="list-style-type: none">Gold Finger Connector (16 Power Pin, 14 Signal Pin)

Certification	  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-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
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	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)