Home » Products » Systems

Network Card (AOC) Matrix

Product SKUs

SYS-6029TR-DTR

SuperServer 6029TR-DTR





Integrated Board Super X11DPT-L

Views: | Angled View | Node View Front View Rear View

<u>Drivers & Utilities</u> <u>BIOS</u> <u>IPMI</u> <u>Tested Memory</u> <u>Tested M.2 List</u> <u>Manuals</u> <u>OS Certification Matrix</u> <u>Quick-References Guide</u> <u>Drive Options</u>

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

Key Applications / Features

- HPC
- Virtualization
- Data Center - Web Server
- Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:
- 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]

1. Dual Socket P (LGA 3647) support

- 2. 8 DIMMs; up to 2TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM
- 3. 2 PCI-E 3.0 x8 (FH/HL) or 1 PCI-E 3.0 x8 (FH/HL) + 1 PCI-E 3.0 x4 (FH/HL) + 1 PCI-E 3.0 x 4 (LP) (8/8/0 or 8/4/4)
- 4. Dedicated IPMI 2.0 LAN

M.2 (22110/2280)

- 5. 6 Hot-swap 3.5" SATA3 drive bays 6. 2 SATA DOM + 1 SATA/NVMe
- 7. Up to 1200W Redundant Power Supplies Titanium Level (96%)



Specifications ^

	P			
Motherboard (Two per System)				
Super X11DPT-L				
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 70-140W			
Cores	Up to 22 Cores			
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)				

SuperServer 6029TR-DTR (**Black**)

Memory Capacity

Up to 2TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM

2933[†]/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM **Memory Type** [†] 2933MHz in two DIMMs per channel can be achieved by using Note memory purchased from Supermicro

On-Board Devices (per Node)

Intel® C621 chipset Chipset **SATA**

8 DIMM slots

SATA3 (6Gbps); RAID 0, 1, 5, 10 support Intel® C621 chipset **Network Controllers**

Support for Intelligent Platform Management Interface v.2.0 **IPMI**

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

Graphics ASPEED AST2500 BMC

Input / Output (per Node)

6 SATA3 (6Gbps) ports **SATA** 2 RJ45 Gigabit Ethernet LAN ports LAN 1 RJ45 Dedicated IPMI LAN port 2 USB 3.0 ports total (rear) **USB** 1 VGA port **VGA** Serial Port / Header 1 COM Port (1 rear) TPM 2.0 Header Others

System BIOS

AMI 32Mb SPI Flash ROM with UEFI **BIOS Type**

Management

Intel[®] Node Manager Software <u>IPMI 2.0</u>

> NMI SSM, SPM, SUM SuperDoctor® 5 Watchdog

KVM with dedicated LAN

PC Health Monitoring CPU

Temperature

4+1 Phase-switching voltage regulator Fans with tachometer monitoring **FAN**

Monitors for CPU Cores, Chipset Voltages, Memory.

Status monitor for speed control Pulse Width Modulated (PWM) fan connectors

Monitoring for CPU and chassis environment Thermal Control for fan connectors

Chassis

2U Rackmount **Form Factor** Model **CSE-827HD-R1K23BP3**

Dimensions and Weight

17.25" (438mm)

Height 3.47" (88mm) 28.5" (724mm) Depth Weight Gross Weight: 61.1 lbs (27.71kg)

Net Weight: 42.1 lbs (19.1kg) **Available Colors** Black

Buttons

Width

Front Panel

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

Power On/Off button

Expansion Slots (per Node)

2 PCI-E 3.0 x8 (FH/HL) or 1 PCI-E 3.0 x8 (FH/HL) + 1 PCI-E 3.0 **PCI-Express** x4 (FH/HL) + 1 PCI-E 3.0 x 4 (LP) (8/8/0 or 8/4/4)

Drive Bays / Storage (per Node)

6 Hot-swap 3.5" SATA3 HDD trays **Hot-swap** 2 SATA DOM Others

1 PCI-E 3.0 x4 NVMe or 1 SATA M.2 (22110/2280) support via

BPN-ADP-6SATA3M2-1UL

* M.2 and SuperDOM are for OS boot

System Cooling

4x 8cm heavy duty PWM fans with optimal fan speed **Fans** controlled

Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

Certification

Total Output Power 1000W/1200W **Dimension** 76 x 40 x 336 mm $(W \times H \times L)$

> 100-127Vac / 15-12A / 50-60Hz Input 200-240Vac / 8.5-7A / 50-60Hz 200-240Vdc / 8.5-7A (for CCC only) Max: 83A / Min: 0A (100-127Vac) **+12V** Max: 100A / Min: 0A (200-240Vac)

Max: 100A / Min: 0A (200-240Vdc) Max: 4A / Min: 0A +5Vsb 19 Pairs Gold Finger Connector **Output Type**

> 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-L	2	Super X11DPT-L Motherboard
	CSE-827HD-R1K23BP3	1	2U Chassis
Backplane	BPN-ADP-6SATA3M2-1UL	2	6x SATA3 with 6Gb/s, onboard 1 x M.2 . 22x80 mm and 22x110 mm, HF,RoHS
Backplane	BPN-SAS2-827HD2	1	2U 12-Port 2-Node 6Gbps Backplane Supports 6x3.5
Cable 1	CBL-PWCD-0900	2	PWCD,US/EU/Canada/China/Australia,IEC60320 C14 TO C13,4FT,17AWG
Air Shroud	MCP-310-82721-0B	2	SC827HD mylar air shroud for on MBD-X11DPT-L-P
Manual	MNL-2164-QRG	1	6029TR-DTR Quick Reference Guide
Riser Card	RSC-T2R-884	2	2U RHS Twin Riser card with two PCI-E x8 and one PCI-E x4 sl
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	SNK-P0069PS	2	1.5U Proprietary 50-mm Tall Front Passive CPU Heat Sink for X11 Purley Platform 2U Node Twin Series Servers
Power Supply	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm,HF,RoHS/REACH
FAN 1	FAN-0129L4	4	80x80x38 mm 11K RPM SC217, SC827 Chassis Middle Fan

	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
Hot-swap 3.5" to 2.5" Hard Disk Drive Tray	MCP-220-00043-0N	-	Black Hot-swap gen 4 3.5" to 2.5" HDD tray
Global Services & Support	OS4HR3/2/1 OSNBD3/2/1	-	3/2/1-year onsite 24x7x4 service 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)









About Us

Investor Relations Careers Site Map

Company Profile

Supermicro in the News

Press Releases

News

Product Reviews Events Webinars

Product Briefs

Resources

Solution Briefs Success Stories Videos White Papers MySupermicro

Connect & Follow Locations

Contact Us Newsletter Sign-up





