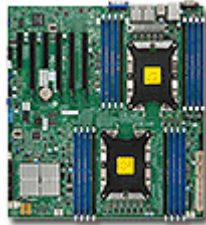


SuperServer 6029P-TRT



Integrated Board



Super X11DPi-NT

Views: | Angled View | Top View | Front View | Rear View |

► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ► [Tested M.2 List](#) ► [NVMe Options](#) ► [Manuals](#) ► [OS Certification Matrix](#) ► [Quick-References Guide](#) ► [Drive Options](#) ► [Network Card \(AOC\) Matrix](#)

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

Key Features

**Cloud and Virtualization needs
Compute Intensive Application
Database Processing and Storage
High Availability Storage
Hosting & Application Delivery**

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,
Supports Intel® Optane™ DCPMM^{††}
3. 4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 slots
4. 8 Hot-swap 3.5" SATA3 drive bays;
RAID 0, 1, 5, 10
5. Optional DVD-ROM drive, optional
support: 2 fixed 2.5" NVMe/SSD/HDD,
1 M.2 support
6. **M.2 Interface:** PCI-E 3.0 x4
M.2 Form Factor: 2260, 2280, 22110
M.2 Key: M-Key
7. 2x 10GBase-T LAN ports with Intel X722
8. 1000W Redundant Power Supplies
Titanium Level (96% efficiency)

Specifications

Product SKUs

- SYS-6029P-TRT

- SuperServer 6029P-TRT (Black)

Motherboard

Super X11DPi-NT

Processor/Cache

- 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 70-205W
- Cores

- Up to 28 Cores
- Note

† BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

- Memory Capacity

- 16 DIMM slots
 - Up to 4TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM
 - Supports Intel® Optane™ DCPMM††
- 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

†† Cascade Lake only. Contact your Supermicro sales rep for more info.

On-Board Devices

- Chipset

- Intel® C622 chipset
- SATA

- SATA3 (6Gbps); RAID 0, 1, 5, 10
- Network Controllers

- Intel® X722 10GBase-T Ethernet Controller
 - Virtual Machine Device Queues reduce I/O overhead
 - Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- 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

- SATA

- 8 SATA3 (6Gbps) ports
- LAN

- 2 RJ45 10GBase-T Ethernet LAN ports
 - 1 RJ45 Dedicated IPMI LAN port

Chassis

- Form Factor

- 2U Rackmount
- Model

- CSE-825TQC-R1K03LPB

Dimensions and Weight

- Width

- 17.2" (437mm)
- Height

- 3.5" (89mm)
- Depth

- 25.5" (647mm)
- Package

- 26.7" (H) x 11.4" (W) x 34.5" (D)
- Weight

- Net Weight: 35.5 lbs (16.1 kg)
 - Gross Weight: 69 lbs (31.2 kg)
- Available Colors

- Black

Front Panel

- Buttons

- Power On/Off button
 - System Reset button
 - UID button
- LEDs

- Power status LED
 - HDD activity LED
 - Network activity LEDs
 - System information (overheat/UID) LED

Expansion Slots

- PCI-Express

- 4 PCI-E 3.0 x16 (Low-profile)
 - 2 PCI-E 3.0 x8 (Low-profile)

Drive Bays

- Hot-swap

- 8 Hot-swap 3.5" SATA drive bays

Backplane

2U SAS/SATA backplane

System Cooling

- Fans

- 3 Heavy duty 80mm fans with PWM fan speed control

Power Supply (76mm Width)

1000W Redundant Power Supplies with PMBus

- Total Output Power

- 800W/1000W
- Dimension (W x H x L)

- 76 x 40 x 336 mm
- Input

- 100-127Vac / 12-9A / 50-60Hz
 - 200-240Vac / 7.2-6A / 50-60Hz
 - 200-240Vdc / 7.2-6A (for CCC only)
- +12V

- Max: 66.7A / Min. 0A (100-127Vac)
 - Max: 83A / Min. 0A (200-240Vac)
 - Max: 83A / Min. 0A (200-240Vdc)

USB	■ Rear USB: 2 USB 3.0 + 2 USB 2.0 ■ Front USB: 2 USB 2.0 ■ USB Header: 1 Type A
VGA	■ 1 VGA port
Serial Port / Header	■ 2 Fast UART 16550 serial ■ 2 COM Ports (1 rear, 1 header)
DOM	■ 2 SuperDOM (Disk on Module) ports

System BIOS

BIOS Type	■ AMI UEFI
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Management

Software	■ Intel® Node Manager ■ <u>IPMI 2.0</u> ■ KVM with dedicated LAN ■ <u>SSM, SPM, SUM</u> ■ <u>SuperDoctor® 5</u> ■ Watch Dog
Power Configurations	■ ACPI / APM 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

5Vsb	■ Max: 4A / Min: 0A
Output Type	■ 19 Pairs Gold Finger Connector
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-X11DPi-NT	1	Super X11DPi-NT Motherboard
	CSE-825TQC-R1K03LPB	1	2U Chassis
Backplane	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0343L-01	2	MINI SAS-4 SATA,INT,76/66/54/45CM,66CM SB,30AWG
Drive Tray(s)	MCP-220-00007-01	1	Black USB/COM port tray for SC825, 836
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Manual	MNL-1918-QRG	1	6029P-TR/TRT Quick Reference Guide
Heatsink / Retention	SNK-P0068PS	1	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	SNK-P0068PSC	1	2U Passive CPU Heat Sink with a Side Air Channel for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K03A-1R	2	1U 1000W Redundant Power Supply Titanium W/PMbus 76x40x336mm,RoHS/REACH
FAN 1	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis

Optional Parts List

	Part Number	Qty	Description
Cable Management Arm	MCP-290-00073-0N	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis (Extendable Length: 70mm to 830mm)
Adaptor Bracket	MCP-120-82503-0N	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
2.5" NVMe fixed drive support	MCP-110-82501-0N	-	NVMe Drive kit for SC825 FDD bay
2.5" NVMe fixed drive support	CBL-SAST-0956	-	Oculink to 1 NVMe drive w/ power, each NVMe drive needs 1x cable, system can support total 2x NVMe fixed drives
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 • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)