

SuperServer 7049P-TRT



Integrated Board



[./products/motherboard/Xeon/C620/X11DPi-](https://products/motherboard/Xeon/C620/X11DPi-NT.cfm)

[NT.cfm](https://products/motherboard/Xeon/C620/X11DPi-NT.cfm)

Super X11DPi-NT ([./products/motherboard/Xeon/C620/X11DPi-NT.cfm](https://products/motherboard/Xeon/C620/X11DPi-NT.cfm))

Views: | [Angled View](#) ([/a_images/products/views/7049P-TRT_angle.jpg](#)). | [Side View](#) ([/a_images/products/views/7049P-TRT_side.jpg](#)). | [Front View](#) ([/a_images/products/views/7049P-TRT_front.jpg](#)). | [Rear View](#) ([/a_images/products/views/7049P-TRT_rear.jpg](#)). |

Key Features

Cost Effective

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 2.5"/3.5" SATA3 (6Gbps) 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. 3 Peripheral 5.25" bays
8. 2x 10GBase-T LAN ports with Intel X722
9. 1200W Redundant Power Supplies

Titanium Level

(Updated for 2021 Version)

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#)

[Tested M.2 List](#) ([/en/support/resources/m2ssd?SystemID=85741&ProductName=SS7049P-TRT](#)).

[NVMe Options](#) [Manuals](#)

[OS Certification Matrix](#)
([/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D7049P%2DTRT](#)).

[Quick-References Guide](#) [Drive Options](#)

[Network Card \(AOC\) Matrix](#) ([/en/support/resources/aoc/standard?show=SELECT&type=MS](#)).

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

Specifications

Product SKUs

SYS-7049P-TRT
SuperServer 7049P-TRT (Black)

Motherboard

Super X11DPi-NT
(</products/motherboard/Xeon/C620/X11DPi-NT.cfm>).

Processor

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)
^{*} CPU SKUs not supported: Gold 6256 and Gold 6250(L) (L = increased memory capacity per socket), Gold 6233W and Gold 5216W

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
Video
ASPEED AST2500 BMC

Input / Output

SATA
8 SATA3 (6Gbps) ports
LAN
2 RJ45 10GBase-T LAN ports
1 RJ45 Dedicated IPMI LAN port

Chassis

Form Factor
4U Rackmountable / Tower
Optional Rackmount Kit
Model
CSE-745BTS-R1K23B

Dimensions and Weight

Height
17.8" (452mm)
Width
7.0" (178mm)
Depth
25.5" (648mm)
Package
24" (H) x 14" (W) x 26.5" (D)
Weight
Net Weight: 56 lbs (25.6 kg)
Gross Weight: 73.5 lbs (33.6 kg)
Available Colors
Black

Front Panel

Buttons
Power On/Off button
System Reset button
LEDs
Power LED
Hard drive activity LED
Network activity LEDs
System Information LED
Power Fail LED
Ports
2 USB Ports

Expansion Slots

PCI-Express
4 PCI-E 3.0 x16 slots
2 PCI-E 3.0 x8 slots
Support total of 6 Full-height AOC

Drive Bays

Hot-swap
8 Hot-swap 2.5"/3.5" SATA3 (6Gbps) drive bays
Peripheral Bays
3 Peripheral 5.25" drive bays

SAS / SATA Backplane

SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling

Fans
3x 80mm high-performance fans
2x 80mm PWM Rear Chassis fans

Power Supply

1200W Redundant High-efficiency Power Supplies

USB
Rear USB: 2 USB 3.0 + 2 USB 2.0
Front USB: 2 USB 3.0
USB Header: 1 Type A

Video
1 VGA port

Serial Port / Header
2 Fast UART 16550 serial
2 COM Ports (1 rear, 1 header)

DOM
2 Super**DOM** ([/SATADOM/](#)). (Disk on Module) ports

System BIOS

BIOS Type
AMI UEFI

Management

Software
Intel® Node Manager
[IPMI 2.0 \(/solutions/IPMI.cfm\)](#)
KVM with dedicated LAN
NMI
[SSM \(/solutions/SMS_SSM.cfm\)](#), [SPM \(/solutions/SMS_SPM.cfm\)](#), [SUM \(/solutions/SMS_SUM.cfm\)](#)
[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](#)

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

Parts List

Total Output Power
1000W with Input 100 - 127Vac
1200W with Input 200 - 240Vac
1200W with Input 200 - 240Vdc (for CCC only)

Dimension (W x H x L)
76 x 40 x 336 mm

Input
50-60Hz

+12V
Max: 83A & Min: 0A (100Vac-127Vac)
Max: 100A & Min: 0A (200Vac-240Vac)

Certification



([http://www.plugloadsolutions.com/80PlusPowerSupply](http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=1)
[id=69&type=1](#)).
Titanium Level

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: