

SuperWorkstation 5049A-T



Integrated Board



</products/motherboard/Xeon/C620/X11SPA->

[TF.cfm](#)

[Super X11SPA-TF \(/products/motherboard/Xeon/C620/X11SPA-TF.cfm\)](/products/motherboard/Xeon/C620/X11SPA-TF.cfm)

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[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=86883&ProductName=SS5049A-T\)](/en/support/resources/m2ssd?SystemID=86883&ProductName=SS5049A-T)

[Manuals](#)

[OS Certification Matrix \(/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D5049A%2DT\)](/support/resources/OS/OS_Certification_Intel.cfm?MProduct_Name=SYS%2D5049A%2DT)

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[Compatible GPU List \(/en/support/resources/gpu\)](/en/support/resources/gpu) | [Drive Options](#)

Key Features

1. Single Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[†]
2. 12 DIMMs; up to 3TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM
3. 4 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 (in x16) slots,
M.2 Interface: 4 PCI-E 3.0 x4
M.2 Form Factor: 2242/2260/2280/22110
M.2 Key: M-Key
* M.2 support RAID 0,1 (up to RAID 5, 10), VROC key is required for RAID 1
4. 1x 10GBase-T and 1x 1GbE LAN ports
5. 7.1 HD Audio
6. 8 Hot-swap 3.5" SAS3/SATA3 drive bays with SGPIO
7. 1000/1200W Multi-output Power Supply **Platinum Level Certified**

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

Specifications

Product SKUs

SuperWorkstation
SYS-5049A-T (**Black**)

Motherboard

Super X11SPA-TF

([./products/motherboard/Xeon/C620/X11SPA-TF.cfm](https://products/motherboard/Xeon/C620/X11SPA-TF.cfm))

Processor/Cache

CPU

Single Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors†

Support CPU TDP up to 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

12 DIMM slots

Up to 3TB 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

Chipset

Intel® C621 chipset

SATA

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

Network Controllers

Single LAN with Intel® Ethernet Controller I210-AT

Single LAN with Aquantia® AQC107 10G Ethernet Controller

Single LAN with Realtek RTL8211E PHY (dedicated IPMI)

IPMI

ASPEED AST2500

Audio

7.1 channel HD Audio by Realtek ALC888S

Input / Output

SATA

8 SATA3 (6Gbps) ports

LAN

1 RJ45 Gigabit Ethernet LAN port

1 RJ45 10GBase-T Ethernet LAN port

1 RJ45 Dedicated IPMI LAN port

USB

6 USB 3.1 Gen1 ports (4 rear, 2 headers)

4 USB 3.1 Gen2 ports (1 rear Type A, 1 rear Type C, 1 Type A header, 1 Type C header)

2 USB 2.0 ports (2 headers, Type A)

Audio

7.1 HD Audio with optical S/PDIF

Video

1 VGA port via AST2500 BMC

Chassis

Form Factor

4U Rackmountable / Tower

Optional Rackmount Kit

Model

CSE-743AC-1K26B-SQ

Dimensions and Weight

Height

17.8" (452mm)

Width

7.0" (178mm)

Depth

25.5" (648mm)

Gross Weight

71 lbs (32.2 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 Overheat / Fan Fail LED

Ports

2 front USB 3.0 Ports

Expansion Slots

PCI-Express

4 PCI-E 3.0 x16 slots

3 PCI-E 3.0 x8 (in x16 slot)

M.2

M.2 Interface: 4 PCI-E 3.0 x4, RAID 0 & 1

Form Factor: 2242/2260/2280/22110

Key: M-Key

M.2 support RAID 0, 1 (up to RAID 5, 10), VROC key is required for RAID1

*NOTE: When M.2 slots C01 or C02 is installed, PCIe slot 1 is disabled. W or M.2 C04 is installed, PCIe slot 4 works x8.

Drive Bays

Hot-swap

8 Hot-swap 3.5" SAS3/SATA3 drive bays (SATA3 default)

Peripheral Bay(s) [90° Rotatable]

3x 5.25" drive bays

Backplane

Supports 8 SATA3 or 8 SAS3 HDD

System Cooling

Fans

2 Super quiet PWM chassis fans (support up to 4 fans)

1 Super quiet rear fan with optimal fan speed control

Power Supply

Serial Port / Header

2 COM ports (1 rear, 1 header)

TPM

1 TPM 2.0 Header

System BIOS**BIOS Type**

256Mb SPI Flash with AMI BIOS

Management**Software**

Intel® Node Manager

[IPMI 2.0 \(/solutions/IPMI.cfm\)](/solutions/IPMI.cfm)[SSM \(/solutions/SMS_SSM.cfm\)](/solutions/SMS_SSM.cfm), [SPM](/solutions/SMS_SPM.cfm)[SUM](/solutions/SMS_SUM.cfm)[\(/solutions/SMS_SUM.cfm\)](/solutions/SMS_SUM.cfm)[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](/solutions/SMS_SD5.cfm)

Watchdog

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

1200W PS2 Multi-output Power Supply

Power Efficiency

94%

Total Output Power and Input

1000W with Input 100 - 120Vac

1200W with Input 120 - 240Vac

AC Input Frequency

50-60 Hz

Dimensions (L x W x H)

185 x 150 x 86 mm

Output Type

24pin ATX

-12V

Max: 0.3A / Min: 0A

+12V

Max: 83A (100Vac - 120Vac)

Max: 99A (120Vac - 240Vac)

+5V

Max: 20A / Min: 0A

+3.3V

Max: 20A / Min: 0A

+5Vsb

Max: 3A / Min: 0A

Certification

(<http://www.plugloadsolutions.com/80PlusPowerSupply?id=69&type=2>), **Platinum Certified**

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:

Parts List

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)