

SuperWorkstation 5049A-TR



Integrated Board



[./products/motherboard/Xeon/C620/X11SPA-](/products/motherboard/Xeon/C620/X11SPA-)

[T.cfm](#)

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

Views: | [Angled View \(/a_images/products/views/5049A-TR_angle.jpg\)](#) | [Side View \(/a_images/products/views/5049A-TR_side.jpg\)](#) | [Front View \(/a_images/products/views/5049A-TR_front.jpg\)](#) | [Rear View \(/a_images/products/views/5049A-TR_rear.jpg\)](#) |

Key Features

1. Single Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[†] Intel® Xeon® W-32xx processor

2. Intel® Xeon® Scalable Processors:
Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz; or 3TB DCPMM, DDR4-2666MHz, in 12 DIMM slots.

Intel® Xeon® W-3200 Processors:
Up to 2TB 3DS ECC L/RDIMM;
up to 1TB 3DS L/RDIMM.

3. 4 PCI-E 3.0 x16,
3 PCI-E 3.0 x8 (in x16 slot)
M.2 Interface: 4 PCI-E 3.0 x4, RAID 0, 1
M.2 Form Factor: 2242/2260/2280/22110
M.2 Key: M-Key

4. 1x 10GBase-T and 1x 1GbE LAN ports

5. 8 Hot-swap 3.5" SAS/SATA bay with SGPIO

6. 1 VGA port, VGA connector is dedicated for IPMI

7. 7.1 HD Audio

8. 2200W Redundant (1+1) Power Supplies **Titanium Level Certified**

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

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=87030&ProductName=SS5049A-TR\)](/en/support/resources/m2ssd?SystemID=87030&ProductName=SS5049A-TR)

[Manuals](#)

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

[Quick-References Guide](#)

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

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-TR (**Black**)

Motherboard

Super X11SPA-T

(</products/motherboard/Xeon/C620/X11SPA-T.cfm>)

Processor/Cache

CPU

Single Socket P (LGA 3647)

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors[‡]

Intel® Xeon® W-32xx 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

Intel® Xeon® Scalable Processors: Support up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz; or 3TB DCPMM, DDR4-2666MHz, in 12 DIMM slots.

Intel® Xeon® W-3200 Processors: Support up to 2TB 3DS ECC RDIMM/LRDIMM; up to 1TB 3DS RDIMM/LRDIMM.

Note

This system doesn't support DCPMM

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)

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)

2 USB 2.0 ports (2 headers, Type A)

Video

1 VGA port

Audio

7.1 HD Audio with optical S/PDIF

Serial Port / Header

1 COM port (header)

Chassis

Form Factor

4U Rackmountable / Tower

Optional Rackmount Kit

Model

CSE-747BTS-R2K20BP

Dimensions and Weight

Height

18.1" (460mm)

Width

7.0" (178mm)

Depth

26.5" (673mm)

Weight

Gross Weight: 72 lbs (32.66 kg)

Net Weight: 57 lbs (25.85 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)

PCI-E x16 Slot#1 shares with M.2, Slot#2 shares with Slot#3 (NA/16,8/8), shares with Slot#5 (NA/16,8/8), Slot#6 shares with Slot#7 (NA/16,8/8) (16/NA/16/NA/16/NA/16 or 16/8/8/8/8/8)

M.2

M.2 Interface: PCI-E 3.0 x4

Form Factor: 2260, 2280, 22110

Key: M-Key

M.2 shares PCI-E lanes with PCI-Ex16 slot#1, VROC key is required for RA

Drive Bays

Hot-swap

8 Hot-swap 3.5" SAS2/SATA3 drive bays (SATA3 default)

Peripheral Bay(s) [90° Rotatable]

3x 5.25" drive bays

Backplane

Supports 8 SATA3 or 8 SAS2 HDD

System Cooling

Fans

4x 92mm hot-swap fan(s)

2x 80mm rear hot-swap exhaust PWM fan(s)

DOM

2 SuperDOM (Disk on Module) ports

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)[SUM](/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

Power Supply

2200W Redundant Power Supplies with PMBus

Total Output Power and Input

1200W with Input 100-127Vac

1800W with Input 200-220Vac

1980W with Input 220-230Vac

2090W with Input 230-240Vac

2200W with Input 220-240Vac (for UL/cUL use only)

2090W with Input 230-240Vdc (for CCC only)

AC Input Frequency

50-60Hz

Dimension**(W x H x L)**

76 x 40 x 336 mm

+12V

Max: 100A / Min: 0A (100-127Vac)

Max: 150A / Min: 0A (200-220Vac)

Max: 165A / Min: 0A (220-230Vac)

Max: 174.17A / Min: 0A (230-240Vac)

Max: 183.3A / Min: 0A (220-240Vac)

5VSB

Max: 1A / Min: 0A

Output Type

Backplanes (gold finger)

Certification<http://www.plugloadsolutions.com/80PlusPowerSupply>

id=69&type=2). Titanium Level

[[Test Report](#)[\(/products/powersupply/80PLUS/80PLUS](/products/powersupply/80PLUS/80PLUS)[1R.pdf](#)]**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)