

SuperWorkstation 5049A-TR



Features

- Single Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)‡ Intel® Xeon® W-32xx processor
- 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.
- 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
- 1x 10GBase-T and 1x 1GbE LAN ports
- 8 Hot-swap 3.5" SAS/SATA bay with SGPIO
- 1 VGA port, VGA connector is dedicated for IPMI
- 7.1 HD Audio
- 2200W Redundant (1+1) Power Supplies Titanium Level Certified

Product SKUs

SYS-5049A-TR	SuperWorkstation SYS-5049A-TR (Black)
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Motherboard

Super X11 SPA-T	Motherboard Supermicro
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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 / Cache	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)
DOM	2 SuperDOM (Disk on Module) ports
TPM	1 TPM 2.0 Header

System BIOS

BIOS Type	256Mb SPI Flash with AMI BIOS
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Management

Software	Intel® Node Manager IPMI 2.0 SSM, SPM, SUM SuperDoctor® 5 Watchdog
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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

Chassis

Form Factor	4U Rackmountable / Tower Optional Rackmount Kit
Model	CSE-747BTS-R2K20BP

Dimensions and Weight

Width	7.0" (178mm)
Height	18.1" (460mm)
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# (NA/16,8/8), Slot#4 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 RAID

Drive Bays

Hot-swap	8 Hot-swap 3.5" SAS3/SATA3 drive bays (SATA3 default)
Peripheral Bay(s) [90o Rotatable]	3x 5.25" drive bays

Backplane

Backplane	Supports 8 SATA3 or 8 SAS3 HDD
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System Cooling

Fans	- 4x 92mm hot-swap fan(s) - 2x 80mm rear hot-swap exhaust PWM fan(s)
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Power Supply

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	80 Plus Titanium

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)