

SuperWorkstation 7048A-T



Available Colors:

Black 



Key Features

• Whisper Quiet Workstation

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB reg. ECC DDR4 2133MHz; 16x DIMM slots
3. 3x PCI-E 3.0 x16, 2x PCI-E 3.0 x8, and 1x PCI-E 2.0 x4 (in x8) slot supports Thunderbolt 2.0 AIC
4. Intel® i210 Dual port GbE LAN
5. 7.1 HD Audio
6. 8x 3.5" Hot-swap SATA HDD Bays
7. 1200W High Efficiency Power Supply Platinum Level (94%)
8. Tower or Rackmount

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

Specifications

Product SKUs

SuperWorkstation ■ SYS-7048A-T (Black)

Motherboard

Super X10DAi

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v3 family (up to 160W TDP) *
 ■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 18 Cores / Up to 45MB Cache

System Bus ■ QPI up to 9.6 GT/s

Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity ■ 16x 288-pin DDR4 DIMM slots
 ■ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM

Memory **High** ■ GF33/1866/1600MHz ECC DDR4 SDRAM Cache

Chassis

Form Factor ■ 4U Rackmountable / Tower
 ■ Optional Rackmount Kit

Model ■ CSE-743TQ-1200B-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
 ■ 2x Network activity LEDs
 ■ System Overheat / Fan Fail LED

Ports ■ 2x front USB 3.0 Ports

Drive Bays

DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Intel® i210 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	<ul style="list-style-type: none"> RealTek ALC888 7.1 High Definition Audio with S/PDIF header

Input / Output

SATA	<ul style="list-style-type: none"> 10x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 6x USB 3.0 ports (4 rear + 2 via header) 5x USB 2.0 ports (2 rear + 2 via header + 1 Type A)
Audio	<ul style="list-style-type: none"> 7.1 HD Audio with optical S/PDIF
DOM	<ul style="list-style-type: none"> 1x DOM (Disk on Module) power connector
TPM	<ul style="list-style-type: none"> 1x TPM 1.2 20-pin Header

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 3x PCI-E 3.0 x16 slots 2x PCI-E 3.0 x8 slots 1x PCI-E 2.0 x4 (in x8) slot supports Thunderbolt 2.0 AIC
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System BIOS

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1

Hot-swap	<ul style="list-style-type: none"> 8x 3.5" Hot-swap SAS/SATA Drive Trays
Peripheral Bay(s) [90° Rotatable]	<ul style="list-style-type: none"> 3x 5.25" Drive Bays

SAS / SATA Backplane

SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling

Fans	<ul style="list-style-type: none"> 2x 2800 RPM Fans 1x 2700 RPM Fan
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Power Supply

1200W high-efficiency power supply w/ PMBus

AC Input	<ul style="list-style-type: none"> 1000W: 100-114.9 V, 50-60 Hz, 12 Amp 1200W: 114.9-240 V, 50-60 Hz, 12-8 Amp
DC Output	<ul style="list-style-type: none"> +3.3V / +5V / +12V / -12V / +5VSB 1000W max: 20A / 20A / 83A / 0.3A / 3A 1200W max: 20A / 20A / 99A / 0.3A / 3A

Note: Max. continuous combined load on +3.3V and +5V output shall not exceed 120W.

Certification	
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 6-Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total of three fan headers supporting up to 8 fans Three 4-pin fan headers 3x fans with tachometer status monitoring Support 3-pin fans (w/o speed control) Low noise fan speed control (4-pin fan only)
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for 8x fan connectors PECI
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°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-X10DAi	1	Super X10DAi Motherboard
	CSE-743TQ-1200B-SQ	1	4U Chassis
Backplane	CSE-SAS-743TQ	1	743 SAS BACKPLANE W/AMI MG9072
Cable 1	CBL-0484L	8	55cm 30AWG SATA S-S cable
Cable 2	CBL-CDAT-0661	2	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
Manual	MNL-1615-QRG	1	SYS-7048A-T, QRG,HF,RoHS/REACH
Parts	MCP-260-00045-1N	1	STD size I/O Shield for X10DAi with EMI Gasket and front metal,RoHS/REACH
Heatsink / Retention	SNK-P0050AP4	2	4U Active CPU Heat Sink for X9, X10 Workstations
Power Supply	PWS-1K25P-PQ	1	PS2 1200W Multi Output High Efficiency P

Optional Parts List

	Part Number	Qty	Description
Mounting Rails	CSE-PT26L-B	-	Chassis Mounting Rails (Black)
Fan	FAN-0074L4	-	80x38MM 4-PIN PWM (MIDDLE) FAN W/HUS FOR SC743
Add-on Card	AOC-TBT-DSL5320	1	Thunderbolt 2,W/Display and GPIO cable,HF,RoHS/REACH