

SuperWorkstation 7047A-T



Integrated Board



Super X9DAi



Available Colors:

Black



Key Features

- **Whisper Quiet Workstation (27dB)**

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. Expansion slots: 3 (x16) PCI-E 3.0, 2 (x8) PCI-E 3.0 & 1 (x4) PCI-E 3.0
4. Intel® i350 Dual port Gigabit Ethernet
5. 2x SATA3 and 8x SATA2 ports
6. 8x Hot-swap 3.5" 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-7047A-T (Black)

Motherboard

Super X9DAi

Processor/Cache

- | | |
|------------|---|
| CPU | <ul style="list-style-type: none"> ■ Dual Socket R (LGA 2011) ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† |
| Note | † BIOS version 3.0 or above is required |
| Cache | ■ Up to 30MB |
| System Bus | ■ QPI up to 8 GT/s |

System Memory

- | | |
|-----------------|---|
| Memory Capacity | <ul style="list-style-type: none"> ■ 16x 240-pin DDR3 DIMM sockets ■ Up to 1TB DDR3 ECC LRDIMM ■ Up to 512GB DDR3 ECC Registered memory (RDIMM) ■ Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM) |
| Memory Type | <ul style="list-style-type: none"> ■ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs |

Chassis

- | | |
|-------------|--|
| Form Factor | <ul style="list-style-type: none"> ■ 4U Rackmountable / Tower ■ Optional Rackmount Kit |
| Model | ■ CSE-743TQ-1200B-SQ |

Dimensions

- | | |
|------------------|--------------------|
| 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 | <ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button |
| LEDs | <ul style="list-style-type: none"> ■ 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"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
Network Controllers	<ul style="list-style-type: none"> Intel® i350 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 ALC889 7.1 High Definition Audio with S/PDIF header
Super I/O	<ul style="list-style-type: none"> Nuvoton W83627

Input / Output

SATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 4x USB 3.0 ports (2 front + 2 rear) 7x USB 2.0 ports (4 rear + 2 via header + 1 Type A)
Audio	<ul style="list-style-type: none"> Line-in / Line-out / Microphone Ports
Keyboard/Mouse	<ul style="list-style-type: none"> PS/2 Keyboard/Mouse port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 ports
IEEE 1394a	<ul style="list-style-type: none"> 2x Headers
TPM	<ul style="list-style-type: none"> 20pin Header v1.2

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 3 (x16) PCI-E 3.0 slots 2 (x8) PCI-E 3.0 slots 1 (x4) PCI-E 3.0 slot
-------------	--

System BIOS

BIOS Type	<ul style="list-style-type: none"> 64Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DMI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

Hot-swap	<ul style="list-style-type: none"> 8x Hot-swap 3.5" SATA Drive Trays
Peripheral Bay(s) [90° Rotatable]	<ul style="list-style-type: none"> 2x 5.25" Peripheral Drive Bay 1x 5.25" Bay for Floppy Drive

SAS / SATA Backplane

SAS / SATA Hard Drive Backplane w/AMI MG9072

System Cooling

Fans	<ul style="list-style-type: none"> 2x 80mm PWM Super Quiet Fans 1x 92mm PWM Super Quiet Rear Fan
------	--

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	 Platinum Certified
---------------	--

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-X9DAi	1	Super X9DAi Motherboard
	CSE-743TQ-1200B-SQ	1	4U Chassis
Backplane	CSE-SAS-743TQ-O-P	1	CSE-SAS-743TQ-O-P
Cable 1	CBL-0061L	4	35CM, SATA CABLE, PB FREE, 26AWG, flat
Cable 2	CBL-0118L-03	1	Ipass to 4 SATA cable 23CM, W / 25.5cm SB, S, 30AWG
Cable 3	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Heatsink / Retention	SNK-P0050AP4	2	4U Active CPU Heat Sink for X9 Socket R WS
Power Supply	PWS-1K25P-PQ	1	PS2 1200W Multi Output High Efficiency P
Cable 4	CBL-0084	1	Front control cable 16 pin split, 6", (converter head), 26AWG
Cable 5	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable 6	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable 7	CBL-0216L	4	4 PIN TO 4 PIN MIDDLE FAN POWER EXTENSION, 20cm. 24AWG(PWM)
Fan 1	FAN-0103L4	1	92x25 4Pin PWM Fan assembly for SC743 Super Quiet rear fan
Fan 2	FAN-0104L4	2	80x25,4 Pin PWM fan assem. for SC743 Super Quiet chassis fan
Drive Tray(s)	MCP-220-00092-0B	8	Black Hot-swap 3.5inch HDD Tray (w/o logo)

Optional Parts List

	Part Number	Qty	Description
Mounting Rails	CSE-PT26L-B	-	Chassis Mounting Rails (Black)
Fan	FAN-0104L4	-	80x25, 4-pin PWM fan assem. for SC743 Super Quiet chassis fan