SuperWorkstation 7047A-T

Integrated Board

Super X9DAi

Available Colors: Black

NVIDIA MAXIMUS TECHNOLOGY | AMD FIREPRO

▸ Drivers & Utilities ▸ BIOS ▸ Tested Memory ▸ Tested HDD ▸ Manuals ▸ OS Certification Matrix ▸ Quick-References

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	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	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	1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5 V, 1.35 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices	
Chipset	Intel® C602 Chipset
SATA	SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
Network Controllers	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	RealTek ALC889 7.1 High Definition Audio with S/PDIF header
Super I/O	Nuvoton W83627

Input / Output	
SATA	2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps)
LAN	2x RJ45 Gigabit Ethernet LAN ports
USB	4x USB 3.0 ports (2 front + 2 rear) 7x USB 2.0 ports (4 rear + 2 via header + 1 Type A)
Audio	Line-in / Line-out / Microphone Ports
Keyboard/Mouse	PS/2 Keyboard/Mouse port
Serial Port / Header	1x Fast UART 16550 ports
IEEE 1394a	2x Headers
TPM	20pin Header v1.2

Expansion Slots	
PCI-Express	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	64Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 DMI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

Chassis	
Form Factor	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	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	
Hot-swap	8x Hot-swap 3.5" SATA Drive Trays
Peripheral Bay (s) [90° Rotatable]	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	2x 80mm PWM Super Quiet Fans 1x 92mm PWM Super Quiet Rear Fan

Power Supply	
1200W high-efficiency power supply w/ PMBus	
AC Input	1000W: 100-114.9 V, 50-60 Hz, 12 Amp 1200W: 114.9-240 V, 50-60 Hz, 12-8 Amp
DC Output 1000W max 1200W max	+3.3V / +5V / +12V / -12V / +5VSB 20A / 20A / 83A / 0.3A / 3A 20A / 20A / 99A / 0.3A / 3A
Note:	Max. continuous combined load on +3.3V and +5V output shall not exceed 120W.
Certification	80 PLUS PLATINUM 94% **Platinum Certified**

PC Health Monitoring	
CPU	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	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	Monitoring for CPU and chassis environment Thermal Control for 8x fan connectors PECI
Other Features	Chassis intrusion detection Chassis intrusion header

Operating Environment / Compliance	
RoHS	RoHS Compliant
Environmental Spec.	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

See Parts List

**This memory modules are not tested yet

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