

SuperWorkstation 7038A-I



Integrated Board



Super X10DAi

Views: | [Angled View](#) | [Side View](#) |
| [Front View](#) | [Rear View](#) |

► [Drivers & Utilities](#) ► [BIOS](#) ► [Tested Memory](#) ► [Manuals](#) ► [OS](#)
[Certification Matrix](#) ► [Quick-References Guide](#) ► [Drive Options](#)

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



Key Features

□ Whisper Quiet Workstation

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB[†]** ECC 3DS LRDIMM, up to DDR4- **2400[†]**MHz; 16x DIMM slots
3. 3x PCI-E 3.0 x16, 2x PCI-E 3.0 x8, 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. 4x 3.5" HDD bays (internal), 2x 5.25" drive bays, and 1x 3.5" internal fixed drive bay
7. 900W Multi-output Power Supply **Gold Level Certified**

Specifications

Product SKUs

SuperWorkstation ■ **SYS-7038A-I (Black)**

Motherboard

Super X10DAi

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 160W TDP) *
■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to **22 Cores**[†] / Up to **55MB**[†] Cache

System Bus ■ QPI up to 9.6 GT/s

Note [†] BIOS version 2.0 or above is required

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 2TB[†] ECC 3DS LRDIMM, 512GB ECC RDIMM

Memory Type ■ **2400**[†]/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes ■ RDIMM: 32GB, 16GB, 8GB, 4GB
■ LRDIMM: 64GB, 32GB
■ 3DS LRDIMM: 128GB

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors

On-Board Devices

Chipset ■ Intel® C612 chipset

SATA ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Controllers ■ 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 ■ RealTek ALC888 7.1 High Definition Audio with S/PDIF header

Super I/O ■ Nuvoton W83627

Input / Output

SATA ■ 10x SATA3 (6Gbps) ports

LAN ■ 2x RJ45 Gigabit Ethernet LAN ports

USB ■ 6x USB 3.0 ports (4 rear + 2 via header)
■ 5x USB 2.0 ports (2 rear + 2 via header + 1 Type A)

Audio ■ 7.1 HD Audio with optical S/PDIF

DOM ■ 2x DOM (Disk on Module) power connectors

Chassis

Form Factor ■ Mid-Tower

Model ■ **CSE-732D4-903B**

Dimensions and Weight

Height ■ 16.7" (424mm)

Width ■ 7.6" (193mm)

Depth ■ 20.68" (525.3mm)

Gross Weight ■ 40 lbs (18.1 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button

LEDs ■ Power LED
■ Hard drive activity LED
■ Network activity LED
■ System Overheat LED

Ports ■ 2x front USB 3.0 Ports
■ 2x front USB 2.0 Ports
■ 2x front HD/AC97 Audio Ports

Drive Bays

Internal ■ 4x 3.5" SATA HDD Bays
(90° rotatable drive cage)
■ Enterprise SATA HDD only recommended

Peripheral Bay ■ 2x 5.25" standard drive bays
■ 1x 3.5" internal fixed drive bay

System Cooling

Fans ■ 2x 12cm (1859rpm) cooling fans
■ Optimized cooling technology for Whisper-Quiet Operation

Heatsink ■ Optional 2x Active CPU Heat Sink (SNK-P0050AP4)

Power Supply

900W AC multi output power supply

AC Voltage ■ 100-240 V, 50-60 Hz, 10-6 Amp

+5V Standby ■ 3 Amp

+12V1 ■ 25 Amp

+12V2 ■ 25 Amp

+12V3 ■ 25 Amp

+12V4 ■ 25 Amp

+5V ■ 25 Amp

+3.3V ■ 25 Amp

-12V ■ 0.5 Amp

Certification



Gold Level

TPM	1x TPM 1.2 20-pin Header
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Expansion Slots

PCI-Express	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	128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	- 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

Note:	- Max. continuous combined load on +3.3V and +5V output shall not exceed 155W. - Max. continuous combined load on +12V1, +12V2, +12V3 and +12V4 output shall not exceed 860W.
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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	8x 4-pin fan headers (up to 8 fans) 8x 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 8x fan connectors - PECI

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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DAi	1	Super X10DAi Motherboard
	CSE-732D4-903B	1	3U Mid-Tow er Chassis
Cable 1	CBL-SAST-0624	4	SATA,INT,ROUND,ST-ST,70CM,30AWG
Cable 2	CBL-0082L	1	Y split , big 4 pin to tw o RA SATA pow er extension 15cm, 18AWG
Fan	FAN-0124L4	1	12 CM x12 CM fan
Manual	MNL-1614-QRG	1	SYS-7038A-i, QRG,HF,RoHS/REACH
Parts	MCP-260-00045-1N	1	STD size I/O Shield for X10DAi w ith EMI Gasket and front metal,RoHS/REACH
Power Supply	PWS-903-PQ	1	PS2 900W Multi-Output Pow er Supply 80Plus Gold

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-0179L	-	SATA CABLE 70CM FLAT S-S PBF
HDD Cage	MCP-220-73201-0N	-	SC732 2.5" HDD Cage (4x Internal 2.5" HDD) - Single Pack
DVD-ROM	DVM-LITE-DVDRW24-HBT	-	BLACK LITE-ON 5.25" HH 24X DVD-RW SATA DRIVE PBF
Heat Sink	SNK-P0050AP4	-	4U Active CPU Heat Sink for X9 Socket R WS
Add-on Card	AOC-TBT-DSL5320	1	Thunderbolt 2,W/Display and GPIO cable,HF,RoHS/REACH

