

SuperWorkstation 5038A-I



Integrated Board



Super X10SRA

Key Features

High Performance, Versatile Features & I/O Access

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/v3, E5-1600 v4[†]/v3, 4th gen. Core i7
2. Intel® C612 chipset
3. Up to 512GB ECC DDR4 **2400[†]**MHz LRDIMM or 128GB ECC/non-ECC UDIMM (available with Core i7 only); 8x DIMM slots
4. 4x PCI-E 3.0 x16 slots (runs at 16/16/NA/8 or 16/8/8/8), 2x PCI-E 2.0 x1 (in x4) slots
5. I/O Ports: 2 GbE, ALC 1150 HD Audio, 6 USB 3.0 + 2 USB 3.0 (front), 1 COM, 1 TPM, 1 PS/2 Keyboard/Mouse port
6. 4x 3.5" internal drive bays
7. 900W Multi-Output Power Supply

Available Colors:

Black



► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [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.

Specifications

Product SKUs

SuperWorkstation ■ **SYS-5038A-I (Black)**

Motherboard

Super X10SRA

Processor

CPU ■ Intel® Xeon® processor E5-2600 v4[†]/ v3, E5-1600 v4[†]/ v3 family or Intel® Core™ i7 series (up to 160W TDP^{**})
■ Single Socket R3 (LGA 2011)

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

Note [†] BIOS version 2.0 or above is required

Note ^{**} Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity ■ 8x 288-pin DDR4 DIMM slots
■ Up to 1TB ECC 3DS LRDIMM
■ Up to 512GB ECC LRDIMM
■ Up to 256GB ECC RDIMM
■ Up to 128GB DDR4 ECC/non-ECC UDIMM (available with Core i7 only)

Memory Type ■ **2400**[†]/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs

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

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C612 chipset

SATA ■ SATA3 (6Gbps) via C612 controller
■ RAID 0, 1, 5, 10 support

Network Controllers ■ Intel® i210-AT Dual Port Gigabit Ethernet
■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Audio ■ RealTek ALC1150 High Definition Audio

Input / Output

SATA ■ 10x SATA3 (6Gbps) ports via PCH

LAN ■ 2x RJ45 Gigabit Ethernet LAN ports

USB ■ 8x USB 3.0 ports (2 front + 6 rear)

Audio ■ 7.1 HD Jacks

Keyboard/Mouse ■ 1x PS/2 Keyboard/Mouse port

Serial Port / Header ■ 1x header

TPM ■ 1x TPM 1.2 20-pin Header

Chassis

Form Factor ■ Mid-Tower

Model ■ **CSE-732D3-903B**

Dimensions and Weight

Height ■ 16.7" (424mm)

Width ■ 7.6" (193mm)

Depth ■ 20.68" (525.3mm)

Weight ■ Gross Weight: 35.5 lbs (16.1kg)
■ Net Weight: 29.5 lbs (13.4 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button

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

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

Drive Bays

Internal ■ 4x 3.5" fixed drive bays
■ Enterprise SATA HDD only recommended

Peripheral ■ 2x 5.25" peripheral drive bays
■ 1x card reader module

System Cooling

Fans ■ 1x 12cm front cooling fan

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

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.

Expansion Slots

- | | |
|--------------------|---|
| PCI-Express | <ul style="list-style-type: none">■ 4x PCI-E 3.0 x16 slots (runs at 16/16/NA/8 or 16/8/8/8)■ 2x PCI-E 2.0 x1 (in x4) slots <p>PCI-E slot #1 supports (x4) and slot #4 (x16) is disabled when an Intel Core i7-5820K is installed</p> |
|--------------------|---|

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■ DMI 2.3■ PCI 2.3■ ACPI 1.0 / 2.0 / 3.0 / 4.0■ USB Keyboard support■ Hardware BIOS Virus protection■ SMBIOS 2.7.1■ UEFI 2.3.1■ RTC (Real Time Clock) Wakeup |

Management

- | | |
|-----------------------------|--|
| Software | <ul style="list-style-type: none">■ <u>SuperDoctor® 5</u>■ <u>SuperDoctor® III</u>■ Watch Dog |
| Power Configurations | <ul style="list-style-type: none">■ ACPI Power Management■ Keyboard Wakeup from Soft-Off■ CPU Fan auto-off in sleep mode■ Power-on mode for AC power recovery |

PC Health Monitoring

- | | |
|--------------------|--|
| Voltage | <ul style="list-style-type: none">■ +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT |
| FAN | <ul style="list-style-type: none">■ Total of 5 fan headers supporting up to 5 fans■ 5 fan headers with tachometer status monitoring■ Status monitor for speed control■ Status monitor for on/off control■ Low noise fan speed control■ Pulse Width Modulated (PWM) fan connectors |
| Temperature | <ul style="list-style-type: none">■ Monitoring for CPU and chassis environment■ CPU thermal trip support■ iC temperature sensing logic■ Thermal Monitor 2 (TM2) support■ PECI |

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-X10SRA	1	Super X10SRA Motherboard
	CSE-732D3-903B	1	3U Mid-Tow er Chassis
Cable 1	CBL-0044L	4	SATA,INT,FLAT,57.7CM,26AWG

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
Fan	FAN-0124L4	-	High performance 12cm (1850rpm) cooling fan

