SuperWorkstation 5038A-I

Integrated Board

Super X10SRA

Views: | **Angled View** | **Side View** |
| **Front View** | **Rear View** |

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.

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

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

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	80 PLUS GOLD — **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.

Serial Port / Header	▪ 1x header
TPM	▪ 1x TPM 1.2 20-pin Header

Expansion Slots

PCI-Express	▪ 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 PCI-E slot #1 supports (x4) and slot #4 (x16) is disabled when an Intel Core i7-5820K is installed

System BIOS

BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	▪ 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	▪ SuperDoctor® 5 ▪ SuperDoctor® III ▪ Watch Dog
Power Configurations	▪ 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	▪ +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, Chassis intrusion header, Monitors CPU voltages, VBAT
FAN	▪ 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	▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ I^2C temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ 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-X10SRA	1	Super X10SRA Motherboard
	CSE-732D3-903B	1	3U Mid-Tower 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-HBT1	-	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