

# SuperWorkstation 5037A-i



## Integrated Board



**Super X9SRA**



Available Color:

Black



## Key Features

1. Single socket R (LGA 2011) supports Intel® Xeon® processor E5-2600/1600 and E5-2600/1600 v2 family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
3. Expansion slots: 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8), 1 PCI-E 2.0 x4 (in x8), 1x PCI-32
4. Intel® 82579LM and 82574L, 2x Gigabit Ethernet LAN ports
5. 4 USB 3.0 and 14 USB 2.0 ports
6. 4x 3.5" SATA3 HDD bays, 90° rotating hard drive cage, 4x 2.5" internal HDD/SSD bays (opt.)
7. 900W Gold Level Power Supply

## Product Review

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-5037A-i (Black)

### Motherboard

Motherboard ■ MBD-X9SRA

### Processor/Cache

CPU ■ Socket R (LGA 2011)  
 ■ Intel® Xeon® processor E5-2600/1600 and E5-2600/1600 v2 family†

Note † BIOS version 3.0 or above is required

### System Memory

Memory Capacity ■ 8x 240-pin DDR3 DIMM sockets  
 ■ Up to 512GB DDR3 ECC LRDIMM  
 ■ Up to 256GB DDR3 ECC RDIMM  
 ■ Up to 64GB DDR3 ECC/non-ECC UDIMM

Memory Type ■ 1866/1600/1333/1066MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Config ■ 2GB, 16GB, 8GB, 4GB, 2GB, 1GB, 512MB

### Chassis

Form Factor ■ Mid-Tower

Model ■ CSE-732D4-903B

### Dimensions

Height ■ 16.7" (424 mm)

Width ■ 7.6" (193 mm)

Depth ■ 20.68" (525.3 mm)

Weight ■ Net Weight: 29.5 lbs (13.38 kg)  
 ■ Gross Weight: 35.5 lbs (16.10 kg)

Available Colors ■ Black

### Front Panel

Buttons ■ Power On/Off button  
 ■ System Reset button

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

Ports ■ 2x Front side USB ports (USB 2.0 ready)

Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
----------------	---

Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
-----------------	--

### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
---------	---

SATA	<ul style="list-style-type: none"> <li>2 SATA3 (6Gbps) and 4 SATA2 (3Gbps)</li> <li>RAID 0, 1, 5, 10</li> </ul>
------	---

Network Controllers	<ul style="list-style-type: none"> <li>Intel® 82579LM and 82574L, 2x Gigabit LAN ports</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
---------------------	--

Audio	<ul style="list-style-type: none"> <li>RealTek ALC889 7.1 High Definition Audio with S/PDIF header</li> </ul>
-------	---

TPM	<ul style="list-style-type: none"> <li>20pin Header v1.2</li> </ul>
-----	---

### Input / Output

Serial ATA	<ul style="list-style-type: none"> <li>2 SATA 3.0 ports (6Gbps)</li> <li>4 SATA 2.0 ports (3Gbps)</li> </ul>
------------	--

SCU	<ul style="list-style-type: none"> <li>4 SATA 2.0 ports (3Gbps) via SCU</li> </ul>
-----	--

LAN	<ul style="list-style-type: none"> <li>2x RJ45 LAN ports</li> </ul>
-----	---

USB	<ul style="list-style-type: none"> <li>4 USB 3.0 (5Gbps; 2 rear, 2 via headers)</li> <li>14 USB 2.0 (8 rear, 6 via headers)</li> <li>Total 4 USB 3.0 and 14 USB 2.0</li> </ul>
-----	--

Audio	<ul style="list-style-type: none"> <li>Line-in / Line-out / Microphone Ports</li> </ul>
-------	---

Serial Port / Header	<ul style="list-style-type: none"> <li>2x Fast UART 16550 serial port (one header and one rear port)</li> </ul>
----------------------	---

### Expansion Slots

PCI-Express	<ul style="list-style-type: none"> <li>2 (x16) PCI-E 3.0 slots</li> <li>1 (x4) PCI-E 3.0 in x8 slot</li> <li>1 (x4) PCI-E 2.0 in x8 slot</li> <li>1 PCI 32-bit slot</li> </ul>
-------------	--

### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
-----------	--

BIOS Features	<ul style="list-style-type: none"> <li>DMI 2.3</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> </ul>
---------------	--

### Drive Bays

Hard Drive	<ul style="list-style-type: none"> <li>4x 3.5" SATA3 HDD Bays</li> <li>90° rotatable tool-less hard drive cage</li> <li>4x 2.5" Internal HDD/SSD bays (optional)</li> <li>Enterprise SATA HDD only recommended</li> </ul>
------------	---

### System Cooling

Fans	<ul style="list-style-type: none"> <li>1x 12cm rear exhaust fan</li> <li>Optimized Cooling Technology at 21dB Whisper-Quiet Operation</li> </ul>
------	--



### Power Supply

900W AC multi output power supply

AC Voltage	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 10-6 Amp</li> </ul>
------------	---

+5V Standby	<ul style="list-style-type: none"> <li>3 Amp</li> </ul>
-------------	---

+12V1	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-------	--

+12V2	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-------	--

+12V3	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-------	--

+12V4	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-------	--

+5V	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-----	--

+3.3V	<ul style="list-style-type: none"> <li>25 Amp</li> </ul>
-------	--

-12V	<ul style="list-style-type: none"> <li>0.5 Amp</li> </ul>
------	---

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.

### PC Health Monitoring

CPU	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li> <li>6-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V</li> </ul>
-----	--

FAN	<ul style="list-style-type: none"> <li>Total of 5 fan headers supporting up to 5 fans</li> </ul>
-----	--

Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for 5x fan connectors</li> <li>PECI</li> </ul>
-------------	---

### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
------	--

Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>
---------------------	---

## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9SRA	1	Super X9SRA Motherboard
	CSE-732D4-903B	1	Mid-Tower Chassis
Cable 1	CBL-0044L	4	SATA CABLE 61CM FLAT S-S PBF. 26AWG flat
CD	CDR-X9-UP	0	Driver CD for X9-UP series motherboard
I/O Shield	MCP-260-00046-0N	1	Standard I/O Shield for C7P67 or X9SRA with EMI Gasket

### Optional Parts List

	Part Number	Qty	Description
Add-On Card	AOC-GPU-NVQ4000	-	Nvidia Quadro 4000 GPU Card
Cable	CBL-0082L	-	Y split SATA power extension 15cm, PBF
Cable	CBL-0179L	-	SATA CABLE 70CM FLAT S-S PBF
HDD Cage	MCP-220-73201-0N	-	SC732 2.5inch HDD Cage (4x Internal 2.5inch 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