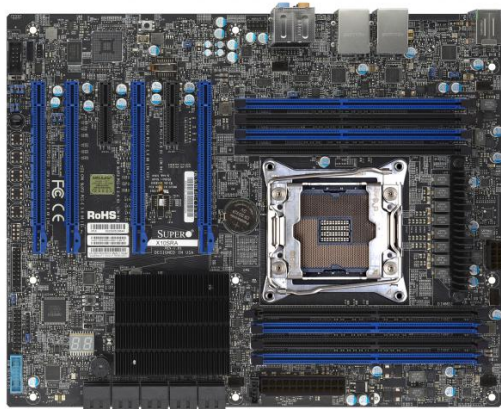




Workstation Key Features

1. Single socket R3 (LGA 2011) supports
Intel® Xeon® processor E5-2600 v4†/ v3, E5-1600 v4†/ v3, Core i7
2. Intel® C612 chipset
3. Up to 512GB ECC DDR4 2400†MHz LRDIMM or 128GB ECC/non-ECC UDIMM (available
w ith Core i7 only); 8 DIMM slots
4. 4 PCI-E 3.0 16 (run at 16/16/NA/8 or 16/8/8/8), 2 PCI-E 2.0 1 (in x4)
5. Intel® i210-AT Dual port GbE LAN
6. 10 SATA3 (6Gbps)
7. 1 COM, 1 TPM
8. 8 USB 3.0 ports (6 rear + 2 via header)
9. HD Audio 7.1 channel connector by Realtek ALC1150

Links & Resources

- [Tested Memory List](#)
- [Tested HDD / SSD List](#)
- [Tested AOC List](#)
- [Motherboard Manual](#)
- [Quick Reference Guide](#)
- [Update Your BIOS](#)
- [Download the Latest Drivers and Utilities](#)
- [Download Drivers CD](#)
- [Heat Sink Compatibility](#)
- [OS Compatibility](#)
- [Optimization](#)



Specifications

Product SKUs

MBD-X10SRA	■ X10SRA
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Physical Stats

Form Factor	■ ATX
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)

Processor/Cache

CPU	■ Intel® Core™ i7 series, Intel® Xeon® Processor E5-1600 v3, Intel® Xeon® Processor E5-1600 v4, Intel® Xeon® processor E5-2600 v3, Intel® Xeon® processor E5-2600 v4 ■ Single Socket LGA-2011-3 (Socket R3) supported, CPU TDP support Up to 160W TDP
Cores / Cache	■ Up to 22 cores † / Up to 55MB† cache
Note	■ ** Motherboard supports this maximum TDP. Please verify your system can thermally support.

System Memory

Memory Capacity	■ Up to 256GB Registered ECC RDIMM; Up to 1TB 3DS ECC LRDIMM, DDR4-2400MHz ■ Or 128GB Unbuffered ECC/non-ECC UDIMM, in 8 DIMM slots ■ Up to 512GB ECC LRDIMM ; ■ UDIMM will be only available for Core i7 processors. ■ ; ■ 2400MHz is supported by E5 V4 processors with 2DPC of LRDIMM or 1DPC of RDIMM.; ■ 8x 288-pin DDR4 DIMM slots
Memory Type	■ 2400□/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs
DIMM Sizes	■ RDIMM: 4GB, 8GB, 16GB, 32GB ■ LRDIMM: 32GB, 64GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	■ Intel® C612
SATA	■ Intel® C612 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10
Network Controllers	■ Dual LAN with Intel® i210 Gigabit Ethernet Controller
Audio	■ ALC 1150 HD Audio

Input / Output

SATA	■ 10 SATA3 (6Gbps) port
LAN	■ 2 RJ45 Gigabit Ethernet LAN ports
USB	■ 8 USB 3.0 ports (6 rear + 2 via headers); 4 USB3.0 ports could be upgraded to 4 USB3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ TPM Header

Expansion Slots

PCI-E	■ 4 PCI-E 3.0 x16 ■ 2 PCI-E 2.0 x1 (in x4 slot), ■ 4 PCI-E Gen3x16 slots are running at 16/16/NA/8 or 16/8/8/8 ■ ■ ■ PCI-E Slot#1 (x4) and Slot#4 (x16) are disabled w hen an Intel Core i7-5820K is installed) ■ PCI-E Slot#1 (x4) and Slot#4 (x16) are disabled w hen an Intel Core i7-5820K is installed)
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System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM w ith 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 ■ Hardw are BIOS Virus protection ■ SMBIOS 2.7.1 ■ UEFI 2.3.1 ■ RTC (Real Time Clock) Wakeup

Management

Software	■ SuperDoctor® 5, SuperDoctor® III, Watchdog
Power Configurations	■ ACPI Pow er Management ■ Keyboard Wakeup from Soft-Off ■ CPU Fan auto-off in sleep mode ■ Pow er-on mode for AC pow er 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	■ 5x 4-pin fan headers (up to 5 fans), 5 fans w ith tachometer status monitoring, Low noise fan speed control, Pulse Width Modulated (PWM) fan connectors, Status monitoring for on/off control, Status monitoring for speed control
Temperature	■ Monitoring for CPU and chassis environment, CPU thermal trip support, I2C temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI
LED	■ CPU / System Overheat LED, Suspend static indicator LED
Other Features	■ Chassis intrusion detection, Chassis intrusion header, Chipkill support, RoHS

Operating Environment

Operating Temperature Range	■ 0°C ~ 50°C (32°F ~ 122°F)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10SRA	1	X10SRA Motherboard
I/O Shield	MCP-260-00077-0N	1	X10SRA/X10SRA-F IO Shield
SATA cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10SRA	1	X10SRA Motherboard
I/O Shield	MCP-260-00077-0N	1	X10SRA/X10SRA-F IO Shield
SATA Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
Quick Reference Guide	MNL-1643-QRG	1	X10SRA/X10SRA-F Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9655V	1	
TPM security module (optional, not included)	AOM-TPM-9655H	1	
TPM security module (optional, not included)	AOM-TPM-9655V-S	1	
TPM security module (optional, not included)	AOM-TPM-9655H-S	1	
TPM security module (optional, not included)	AOM-TPM-9655V-C	1	
TPM security module (optional, not included)	AOM-TPM-9655H-C	1	
TPM security module (optional, not included)	AOM-TPM-9665V-FS	1	
TPM security module (optional, not included)	AOM-TPM-9665H-FS	1	
TPM security module (optional, not included)	AOM-TPM-9665V-FC	1	
TPM security module (optional, not included)	AOM-TPM-9665H-FC	1	
TPM security module (optional, not included)	AOM-TPM-9665V	1	
TPM security module (optional, not included)	AOM-TPM-9665H	1	
TPM security module (optional, not included)	AOM-TPM-9665V-S	1	
TPM security module (optional, not included)	AOM-TPM-9665H-S	1	
TPM security module (optional, not included)	AOM-TPM-9665V-C	1	
TPM security module (optional, not included)	AOM-TPM-9665H-C	1	

Chassis (Optimized for X10SRA)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
					● SC743TQ-1200B-SQ 4U Heatsink:SNK-P0050AP4

●

 = Most optimized Chassis for SuperServer Configuration
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

Server (Optimized for X10SRA)

Server Name
<u>SYS-5038A-I</u>