X10SRA

Home ▸ Products ▸ Motherboards ▸ [X10SRA]
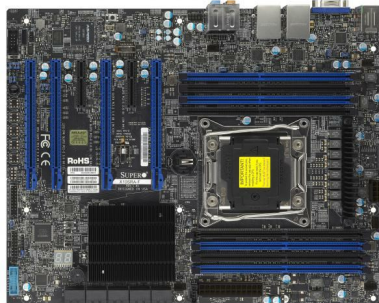
Key Features

Workstation

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 with 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

GLOBAL SKU

Specifications

Product SKUs

MBD-X10SRA	X10SRA

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 R3 (LGA 2011) supported, CPU TDP support Up to 160W TDP
Cores / 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	▪ Up to 256GB Registered ECC RDIMM; Up to 1TB 3DS ECC LRDIMM ▪ Up to 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

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 when an Intel Core i7-5820K is installed) ▪ PCI-E Slot#1 (x4) and Slot#4 (x16) are 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, Watchdog
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
	▪ 5x 4-pin fan headers (up to 5 fans), 5 fans

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 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

FAN	with 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)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

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

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
SYS-5038A-I