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Workstation

# **Key Features**

- Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3, E5-1600 v4†/ v3, Core i7
- 2. Intel® C612 chipset
- 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. <u>8 USB 3.0 ports (6 rear + 2 via header)</u>
- 9. HD Audio 7.1 channel connector by Realtek ALC1150

# Links & Resources

- ► Tested Memory List
- ► Tested HDD / SSD List
- ► Tested AOC List
- ▶ <u>Motherboard Manual</u>
- ▶ Quick Reference Guide
- ▶ <u>Update Your BIOS</u>
- Download the Latest Drivers and Utilities
- ▶ <u>Download Drivers CD</u>
- Heat Sink Compatibility
- OS Compatibility



# Specifications

	Spec
Product SKUs	
MBD-X10SRA	x10SRA
<b>Physical Stats</b>	
Form Factor	■ ATX
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)
Processor/Cad	he
CPU	■ Intel® Core™ i7 series, Intel® Xeon® Processor E5-1600 v3, Intel® Xeon® Processor E5-1600 v4, Intel® Xeon® processor E5-2600 v4, 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	<ul> <li>** Motherboard supports this maximum TDP.</li> <li>Please verify your system can thermally support.</li> </ul>
System Memo	ry
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	<ul> <li>4 PCI-E 3.0 x16</li> <li>2 PCI-E 2.0 x1 (in x4 slot),</li> <li>4 PCI-E Gen3x16 slots are running at 16/16/NA/8 or 16/8/8/8</li> <li>PCI-E Slot#1 (x4) and Slot#4 (x16) are disabled when an Intel Core i7-5820K is installed)</li> <li>PCI-E Slot#1 (x4) and Slot#4 (x16) are disabled when an Intel Core i7-5820K is installed)</li> </ul>
System BIOS	
BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 DM 1.23 PC12.3 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> <li>SuperDoctor® 5, SuperDoctor® III,</li> <li>Watchdog</li> </ul>
Power Configurations	<ul> <li>ACPI Power Management</li> <li>Keyboard Wakeup from Soft-Off</li> <li>CPU Fan auto-off in sleep mode</li> <li>Power-on mode for AC power recovery</li> </ul>
PC Health Monito	bring
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

On-Board Devices  Chipset Intel® C612  SATA Intel® C612 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10  Network Controller Contr	Memory Voltage Error Detection	<ul> <li>1.2V</li> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC</li> </ul>	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	
Chipset  Intel® C612  SATA  Intel® C612 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10  Network Controllers  Audio  ALC 1150 HD Audio  Input / Output  SATA  In 0 SATA3 (6Gbps) port LAN  In 2 RJ45 Gigabit Ethernet LAN ports  IN 8 USB 3.0 ports (6 rear + 2 headers); 4 USB3.1 (10 Gb/s) ports (2 rear, 2 by header) (BOM option)  Serial Port /  Intel® C612  Temperature  temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  temperature  temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  LED  CPU / System Overheat LED, Suspend static indicator LED  Other Features  Operating Environment  Operating Temperature  In 0°C ~ 50°C (32°F ~ 122°F)  Range  Temperature  Temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  LED  CPU / System Overheat LED, Suspend static indicator LED  Other Features  Operating Temperature  Operating Temperature  Operating Temperature sensing logic, Thermal Monitor 2 (TM2) support, PECI  LED  Temperature  LED  Other Features  Operating Temperature  Operating Temperature  Operating Temperature  Operating Temperature  Operating Temperature  Operating Temperature  Temperature  Temperature  Sensing logic, Thermal Monitor  2 (TM2) support, PECI  LED  Other Features  Other Features  Other Features  Other  Features  Oth		memory)	Temperature	environment, CPU thermal trip support, I2C	
Chipset Intel® C612 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10  Network 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  8 USB 3.0 ports (6 rear + 2 headers); 4 USB USB3.0 ports could be upgraded to 4 USB3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)  Serial Port / - 1 COM Port (1 header)	On-Board Devi				
SATA  Intel® C612 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10  Network Controllers  Audio ALC 1150 HD Audio  Input / Output  SATA I 10 SATA3 (6Gbps) port LAN I 2 RJ45 Gigabit Ethernet LAN ports  I 8 USB 3.0 ports (6 rear + 2 headers); 4 USB USB3.0 ports could be upgraded to 4 USB3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)  Serial Port /  I COM Port (1 header)	Chipset	Chipset ■ Intel® C612			
Network Controllers  Audio ALC 1150 HD Audio  Input / Output  SATA 10 SATA3 (6Gbps) port  LAN 2 RJ45 Gigabit Ethernet LAN ports  8 USB 3.0 ports (6 rear + 2 headers); 4 USB3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)  Serial Port /  1 COM Port (1 header)  LED CPU7/System Overneat LED, Suspend static indicator LED  Other Features intrusion detection, Chassis intrusion header, Chipkill support, RoHS  Operating Temperature Range  0°C ~ 50°C (32°F ~ 122°F)  Range	SATA	■ Intel® C612 controller for SATA3 (6 Gbps)		( ) 11 ,	
Network Dual LAN with Intel® i210 Gigabit Ethernet Controller  Audio ALC 1150 HD Audio  Input / Output  SATA In 10 SATA3 (6Gbps) port  LAN In 2 RJ45 Gigabit Ethernet LAN ports  B USB 3.0 ports (6 rear + 2 headers); 4  USB USB 3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)  Serial Port / Audio Chassis intrusion detection, Chassis intrusion header, Chipkill support, RoHS  Operating Environment  Operating Temperature  Temperature  N°C ~ 50°C (32°F ~ 122°F)  Range  Other  Features  Intrusion header, Chipkill support, RoHS  Operating Environment  Operating Temperature  Temperature  N°C ~ 50°C (32°F ~ 122°F)  Range	OAIA	ports; RAID 0,1,5,10	LED		
Audio	Network	■ Dual LAN with Intel® i210 Gigabit Ethernet			
Input / Output  SATA	Controllers	Controller			
SATA ■ 10 SATA3 (6Gbps) port  LAN ■ 2 RJ45 Gigabit Ethernet LAN ports  ■ 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 / = 1 COM Port (1 header)	Audio	ALC 1150 HD Audio			
LAN = 2 RJ45 Gigabit Ethernet LAN ports  = 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 / = 1 COM Port (1 header)	Input / Output		Operating Enviro	onment	
LAN  2 RJ45 Gigabit Ethernet LAN ports  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 /  1 COM Port (1 header)	SATA	■ 10 SATA3 (6Gbps) port		0°C = 50°C (22°E = 122°E)	
USB 3.0 ports could be upgraded to 4 USB3.1(10 Gb/s) ports (2 rear, 2 by header)(BOM option)  Serial Port / - 1 COM Port (1 header)	LAN	■ 2 RJ45 Gigabit Ethernet LAN ports	•	0 0 30 0 (321 4 1221)	
- 1 COM Port (1 header)	USB	USB3.0 ports could be upgraded to 4 USB3.1(10 Gb/s) ports (2 rear, 2 by			
		■ 1 COM Port (1 header)			
TPM ■ TPM Header	TPM	■ TPM Header			

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)

<b>Embedded Compact</b>	1U	2U	3U	Mid/Mini-Tower	4U/Tower
					● <u>SC743TQ-</u>
					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

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