



High Performance Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 and E5-1600 v4†/ v3 family
2. Intel® C612 chipset
3. Up to 1TB† ECC 3DS LRDIMM, up to DDR4- 2400†MHz; 8 DIMM slots
4. 2 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8), 1 PCI-E 3.0 x16, 1 PCI-E 2.0 x2 (in x8), 1 PCI-E 2.0 x4 (in x8)
5. Intel® i350-AM2 Dual port GbELAN
6. 10 SATA3 (6Gbps) via C612
7. 1 VGA, 2 COM, 1 TPM
8. 4 USB 3.0 ports, 8 USB 2.0 ports
9. 2 SuperDOM w ith built-in power

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

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[Heat Sink Compatibility](#)

[OS Compatibility](#)

[Optimization](#)



Specifications

Product SKUs

- MBD-X10SRi-F ■ X10SRi-F

Physical Stats

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

Processor/Cache

- **CPU** ■ 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 145W 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, DDR4-2400MHz; Up to 512GB LRDIMM LRDIMM, DDR4-2400MHz, in 8 DIMM slots
- **Memory Type** ■ 2400□/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
- **DIMM Sizes** ■ RDIMM: 4GB, 8GB, 16GB, 32GB
 - LRDIMM: 32GB, 64GB
 - 3DS LRDIMM: 128GB
- **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 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- **IPMI** ■ Support for Intelligent Platform Management Interface v.2.0
 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 - ASPEED AST2400 BMC
- **Network Controllers** ■ Dual LAN with Intel® Ethernet Controller I350-AM2 Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output Realtek RTL8211E PHY (dedicated IPMI)
- **Graphics** ■ Aspeed AST2400 BMC

Input / Output

- **SATA** ■ 10 SATA3 (6Gbps) port
- **LAN** ■ 2 RJ45 Gigabit Ethernet LAN ports
 - 1 RJ45 Dedicated IPMI LAN port
- **USB** ■ 8 USB 2.0 ports (2 rear + 6 via headers)
 - 4 USB 3.0 ports (2 rear + 1 via header + 1 Type A)
- **Video Output** ■ 1 VGA port
- **Serial Port / Header** ■ 2 COM Ports (1 rear, 1 header)
 - 2 fast UART 16550 serial
- **TPM** ■ TPM Header

Expansion Slots

- **PCI-E** ■ 1 PCIe 3.0 x16,
 - 1 PCIe 3.0 x4 (in x8 slot),
 - 2 PCIe 3.0 x8
 - 1 PCIe 2.0 x4 (in x8 slot)
 - 1 PCIe 2.0 x2 (in x8 slot)

System BIOS

- **BIOS Type** ■ 128Mb SPI Flash EEPROM with AMI BIOS
- **BIOS Features** ■ Plug and Play (PhP)
 - APM 1.2
 - DMI 2.3
 - PCI 2.3
 - ACPI 1.0 / 2.0 / 3.0 / 4.0
 - USB Keyboard support
 - SMBIOS 2.7.1
 - UEFI 2.3.1
 - RTC (Real Time Clock) Wakeup

Management

- **Software** ■ Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, 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, +5V standby, HT, VBAT
- **FAN** ■ 6x 4-pin fan headers (up to 6 fans), 6 fans 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, UID/Remote UID
- **Other Features** ■ Chassis intrusion detection, Chassis intrusion header, Chipkill support, RoHS, Halogen Free

Operating Environment

- **Operating Temperature Range** ■ 0°C ~ 60°C (32°F ~ 140°F)
- **Non-Operating Temperature Range** ■ -20°C ~ 60°C (-4°F ~ 140°F)
- **Operating Relative Humidity Range** ■ 10% ~ 85% (non-condensing)
- **Non-Operating Relative Humidity Range** ■ 10% ~ 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X10SRi-F	1	X10SRi-F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD

Chassis (Optimized for X10SRi-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	<u>SC815TQ-563CB</u> 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4 ● <u>SC813MFTQ-441CB</u> ● <u>SC813MFTQ-R400CB</u> ● <u>SC813MFTQ-R606CB</u>	● 213LT-600LPB ● 823TQ-653LPB ● 826TQ-R500LPB ● 825TQ-563LPB 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● <u>SC833T-653B</u> ● <u>SC836TQ-R500B</u> 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● <u>SC732I-500B</u>	● <u>SC743T-665B</u> ● <u>SC842TQ-865B</u> ● <u>SC842TQ-665B</u> ● <u>SC842i-500B</u> 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4

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

Server (Optimized for X10SRi-F)

Server Name
SYS-5018R-M
SYS-5018R-MR