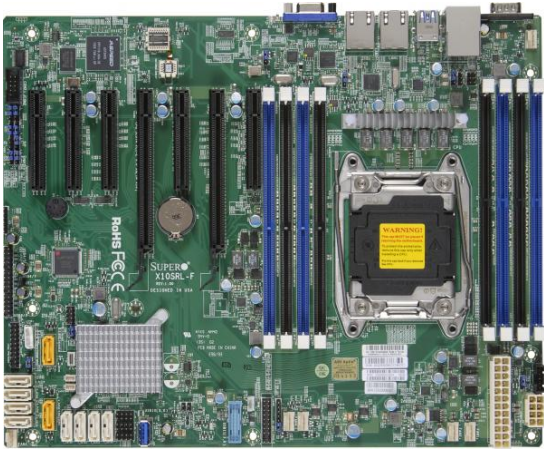


X10SRL-F

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](#)
- [Download Drivers CD](#)
- [Heat Sink Compatibility](#)
- [OS Compatibility](#)
- [Optimization](#)



Embedded 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. 7 PCI-E slots total:
2 PCI-E 3.0 x8, 2 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x4 (in x8) or 1 x8 + 1 x0 (auto-switch), & 1 PCI-E 2.0 x4 (in x8) |
| 5. Intel® i210 Dual port GbE LAN |
| 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 with built-in power |



Specifications

Product SKUs	
MBD-X10SRL-F	X10SRL-F
Physical Stats	
Form Factor	ATX
Dimensions	12" x 9.6" (cm 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 slotsUp to 1TB ECC 3DS LRDIMM
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 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 I210Supports 10Base-T, 100BASE-TX, and 1000BASE-T, RJ45 output
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	2 PCI-E 3.0 x4 (in x8 slot) Auto-switch to 1 x8 and 1 x0, 2 PCI-E 3.0 x8, 2 PCI-E 3.0 x8 (in x16 slot) 1 PCI-E 2.0 x4 (in x8 slot)
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 - 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), 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-X10SRL-F	1	X10SRL-F Motherboard
I/O Cable 1	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket

Chassis (Optimized for X10SRL-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● SC813MFTQ-R606CB ● SC813MFTQ-R400CB ● SC813MFTQ-441CB 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● SC213LT-600LPB ● SC826TQ-R500LPB ● SC823TQ-653LPB ● SC825TQ-563LPB ● SC825TQ-R720LPB 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● SC833T-653B ● SC836TQ-R500B ● SC836BE1C-R1K03B 1U Heatsink:SNK-P0047PS 2U Heatsink:SNK-P0048AP4	● SC732I-500B ● SC732D4F-903B	● SC743T-665B ● SC842i-500B ● SC842TQ-665B ● SC842TQ-865B 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