



## Key Features

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C232 chipset
3. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
4. Expansion slots:
  - 1 PCI-E 3.0 x8 (in x16),
  - 1 PCI-E 3.0 x4 (in x8),
  - 1 PCI-E 3.0 x1
5. Dual GbE LAN with Intel® i210-AT
6. 6 SATA3 (6Gbps) via C232; RAID 0, 1, 5, 10
7. 8 SAS3 (12Gbps) via Broadcom® 3008 SW controller; RAID 0, 1, 10
8. I/O: 1 VGA, 2 COM, TPM header
9. 2 SuperDOM with built-in power
10. 5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))

## 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 Driver CD](#)

[OS Compatibility](#)

[Optimization](#)

# Specifications

## Product SKUs

- MBD-X11SSL-CF
- X11SSL-CF

## Physical Stats

- **Form Factor** Micro-ATX
- **Dimensions** 9.6" x 9.6" (24.38cm x 24.38cm)

## Processor/Cache

- **CPU** Intel® 7th/6th Generation Core i3 series, Intel® Celeron®, Intel® Pentium®, Intel® Xeon® processor E3-1200 v6/v5.
  - Single Socket H4 (LGA 1151) supported, CPU TDP support 80W
- **Note** BIOS version 2.0 or above is required to support 7th Generation Intel® Core™ i3 Processors and Intel® Xeon® Processor E3-1200 v6 series

## System Memory

- **Memory Capacity** 64GB Unbuffered ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots
- **Memory Type** 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
- **DIMM Sizes** 4GB, 8GB, 16GB
- **Memory Voltage** 1.2V
- **Error Detection** Corrects single-bit errors

## On-Board Devices

- **Chipset** Intel® C232
- **SATA** Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- **SAS** LSI3008 controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10
- **IPMI** ASPEED AST2400 BMC
- **Network Controllers** Dual LAN with Intel® Ethernet Controller I210-AT
- **Graphics** Aspeed AST2400 BMC

## Input / Output

- **USB** 6 USB 2.0 ports (2 rear + 4 headers)
  - 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
- **Video Output** 1 VGA port
- **Serial Port / Header** 2 COM Ports (1 rear, 1 header)
- **TPM** TPM Header

## Expansion Slots

- **PCI-E** 1 PCI-E 3.0 x8 (in x16 slot),
  - 1 PCI-E 3.0 x4 (in x8 slot),
  - 1 PCI-E 3.0 x1

## System BIOS

- **BIOS Type** 128Mb SPI Flash EEPROM with AMI BIOS
- **BIOS Features** ACPI 1.0 / 2.0 / 3.0 / 4.0
  - APM 1.2
  - DMI 2.3
  - Hardware BIOS Virus protection
  - PCI 2.3
  - Plug and Play (PnP)
  - SMBIOS 2.7.1
  - UEFI 2.3.1
  - USB Keyboard support

## Management

- **Software** IPMI2.0, NMI, SSM, SUM, SuperDoctor® 5, Watchdog
- **Power Configurations** ACPI Power Management
  - Power-on mode for AC power recovery

## PC Health Monitoring

- **Voltage** +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
- **FAN** 5x 4-pin fan headers (up to 5 fans), Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
- **Temperature** CPU thermal trip support, Monitoring for CPU and chassis environment, PECI, Thermal Monitor 2 (TM2) support
- **LED** UID/Remote UID, CPU / System Overheat LED
- **Other Features** Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, WOL

## Operating Environment

- **Operating Temperature Range** 0°C ~ 50°C (32°F ~ 122°F)
- **Non-Operating Temperature Range** -40°C - 70°C (-40°F - 158°F)
- **Operating Relative Humidity Range** 8% - 90% (non-condensing)
- **Non-Operating Relative Humidity Range** 5% - 95% (non-condensing)

# Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSL-CF	1	X11SSL-CF 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 for X11SSL-CF with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSL-CF	1	X11SSL-CF Motherboard
QRG	MNL-1782-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SSL-CF with EMI Gasket

## Chassis (Optimized for X11SSL-CF)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<ul style="list-style-type: none"> <li>● <a href="#">SC813MFTQC-505CB</a></li> <li>● <a href="#">SC813MFTQC-R400CB</a></li> <li>● <a href="#">SC113MFAC2-605CB</a></li> <li>● <a href="#">SC113MFAC2-R606CB</a></li> <li><a href="#">SC512F-350B</a></li> <li><a href="#">SC813MTQC-350CB</a></li> <li>● <a href="#">SC813MFTQC-350CB</a> 1U Heatsink:SNK-P0046P</li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">SC823TQ-653LPB</a></li> <li>● <a href="#">SC825TQ-R720LPB</a></li> <li>● <a href="#">SC213LT-600LPB</a> 2U Heatsink:SNK-P0046A4</li> </ul>	<ul style="list-style-type: none"> <li>● <a href="#">SC833T-653B</a> 2U Heatsink:SNK-P0046A4</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">SC731i-300B</a></li> <li><a href="#">SC732I-500B</a></li> <li><a href="#">SC731i-403B</a></li> <li><a href="#">SC731D-300B</a></li> <li><a href="#">SC732D3-1200B</a></li> <li><a href="#">SC732D3-903B</a></li> <li><a href="#">SC732D4-903B</a></li> <li><a href="#">SC732D4F-903B</a></li> <li><a href="#">SC733TQ-668B</a></li> <li><a href="#">SC733TQ-500B</a> 2U Heatsink:SNK-P0046A4</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">SC842TQ-665B</a></li> <li><a href="#">SC842i-500B</a></li> <li><a href="#">SC743AC-1200B-SQ</a></li> <li><a href="#">SC743TQ-1200B</a></li> <li><a href="#">SC743TQ-865B</a></li> <li><a href="#">SC743TQ-903B</a></li> <li><a href="#">SC745BAC-R1K28B2</a></li> <li><a href="#">SC745BTQ-R1K28B</a> 2U Heatsink:SNK-P0046A4</li> </ul>

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU