

X11SSL-nF



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. 2 PCI-E 3.0 x4 NVMe External Ports
6. Dual GbE LAN with Intel® i210-AT
7. 6 SATA3 (6Gbps) via C232; RAID 0, 1, 5, 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))

Specifications

Product SKUs

MBD-X11SSL-nF	<ul style="list-style-type: none"> X11SSL-nF
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Physical Stats

Form Factor	<ul style="list-style-type: none"> Micro-ATX
Dimension	<ul style="list-style-type: none"> 9.6" x 9.6" (24.38cm x 24.38cm)

Processor

CPU	<ul style="list-style-type: none"> Intel® Celeron®, Intel® Pentium®, Intel® 7th/6th Generation Core i3 series, Intel® Xeon® processor E3-1200 v6/v5 Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 80W TDP
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System Memory

Memory Capacity	<ul style="list-style-type: none"> 4 DIMM slots 64GB ECC UDIMM, DDR4-2400MHz
Memory Type	<ul style="list-style-type: none"> 2400/2133/1866/1600MHz SDRAM 72-bit, 288-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 4GB, 8GB, 16GB
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C232
SATA	<ul style="list-style-type: none"> Intel® C232 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Dual LAN with Intel® Ethernet Controller I210-AT

Input / Output

USB	<ul style="list-style-type: none"> 3 USB 3 port(s) (1 Type A; 2 via header) 6 USB 2.0 port(s) (4 via header; 2 rear) 2 USB 3.0 port(s) (2 rear)
Video Output	<ul style="list-style-type: none"> 1 VGA port(s)
Serial Port	<ul style="list-style-type: none"> 2 COM Port(s) (1 header; 1 rear)
TPM	<ul style="list-style-type: none"> 1 TPM Header

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x4 (in x8 slot), 1 PCI-E 3.0 x1
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System BIOS

BIOS Type	<ul style="list-style-type: none"> 128MB SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> 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 USB Keyboard support UEFI 2.3.1

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, <u>SSM</u>, <u>IPMI2.0</u>, Watchdog
Power Configurations	<ul style="list-style-type: none"> Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V
LED	<ul style="list-style-type: none"> UID/Remote UID CPU / System Overheat LED
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	<ul style="list-style-type: none"> 5x 4-pin fan headers (up to 5 fans) Thermal control tachometer fan connectors Fan speed control Overheat LED indication
Other Features	<ul style="list-style-type: none"> WOL CPU thermal trip support for processor protection Control of power-on for recovery from AC power loss

Operating Environment

Operating Temperature Range	<ul style="list-style-type: none"> 0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -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-nF	1	X11SSL-nF Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SSL-nF with EMI Gasket

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

Chassis (Optimized for X11SSL-nF)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<u>SC813MTQ-350CB</u> ● <u>SC113MFAC2-R606CB</u> ● <u>SC813MFTQ-R400CB</u> ● <u>SC113MFAC2-605CB</u> ● <u>SC813MFTQC-350CB</u> ● <u>SC813MFTQC-505CB</u> <u>SC512F-350B</u> Heatsink:SNK-P0046P	● <u>SC213LT-600LPB</u> ● <u>SC823TQ-653LPB</u> <u>SC825TQ-R720LPB</u> Heatsink:SNK-P0046A4	● <u>SC833T-653B</u> Heatsink:SNK-P0046A4	<u>SC731i-300B</u> <u>SC732D4F-903B</u> <u>SC733TQ-500B</u> <u>SC731i-403B</u> <u>SC732D3-903B</u> <u>SC732D3-1200B</u> SC732I-500B <u>SC731D-300B</u> <u>SC732D4-903B</u> <u>SC733TQ-668B</u> Heatsink:SNK-P0046A4	<u>SC743TQ-865B</u> <u>SC743TQ-1200B</u> <u>SC842TQ-665B</u> <u>SC842i-500B</u> <u>SC743AC-1200B-SQ</u> <u>SC745BAC-R1K28B2</u> <u>SC743TQ-903B</u> <u>SC745BTQ-R1K28B</u> Heatsink:SNK-P0046A4

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

