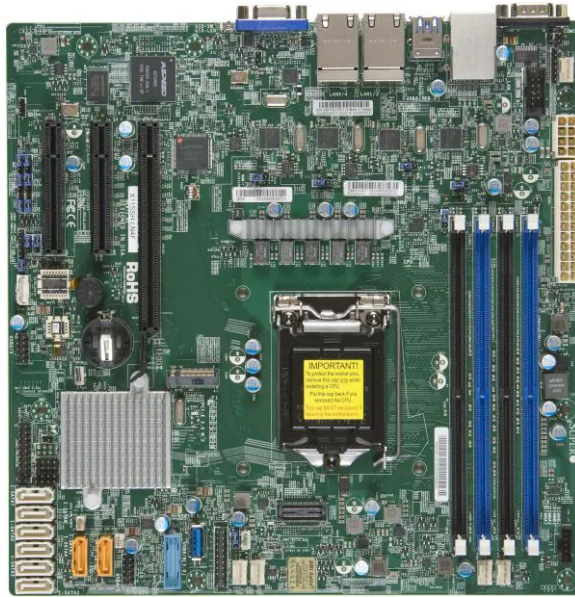


X11SSH-LN4F



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® C236 chipset
3. Support Intel® VHD with selected CPU
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots
5. Expansion slots:
 - 1 PCI-E 3.0 x8 (in x16),
 - 1 PCI-E 3.0 x8,
 - 1 PCI-E 3.0 x4 (in x8)
6. M.2 NGFF connector
 - M.2 Interface:** PCI-E 3.0 x2
 - Form Factor: 2280
 - Key: M-Key
7. 8 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10
8. Quad GbE LAN with Intel® i210-AT
9. I/O: 1 VGA, 2 COM, TPM header
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

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot)
M.2	<ul style="list-style-type: none"> M.2 Interface: PCI-E 3.0 x2 Form Factor: 2280 Key: M-Key

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"> Plug and Play (PnP) APM 1.2 PCI 2.3 DMI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.7.1 UEFI 2.3.1

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, SUM, SPM, Intel® Node Manager, SSM, IPMI2.0, 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 M.2 NGFF connector CPU thermal trip support for processor protection Control of power-on for recovery from AC power loss VHD

Product SKUs

MBD-X11SSH-LN4F	<ul style="list-style-type: none"> X11SSH-LN4F
------------------------	---

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
------------	--

Note	<ul style="list-style-type: none"> 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	<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® C236
SATA	<ul style="list-style-type: none"> Intel® C236 controller for 8 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"> Quad 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

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	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSH-LN4F	1	X11SSH-LN4F 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 X11SSH-LN4F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SSH-LN4F	1	X11SSH-LN4F 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 X11SSH-LN4F with EMI Gasket
QRG	MNL-1778-QRG	1	Motherboard Quick Reference Guide

Chassis (Optimized for X11SSH-LN4F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<u>SC813MTQ-350CB</u> ● <u>SC113MFAC2-R606CB</u> ● <u>SC813MFTQ-R400CB</u> <u>SC815TQ-563CB</u> ● <u>SC813MFTQC-350CB</u> ● <u>SC813MFTQC-505CB</u> ● <u>SC113MFAC2-341CB</u> <u>SC512F-350B</u>	● <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>SC731i-403B</u> <u>SC732D3-1200B</u> SC732I-500B <u>SC731D-300B</u> Heatsink:SNK-P0046A4	<u>SC842TQ-665B</u> <u>SC842i-500B</u> <u>SC743AC-1200B-SQ</u> <u>SC745BAC-R1K28B2</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

Server (Optimized for X11SSH-LN4F)

Server Name
<u>SYS-5019S-MN4</u>

