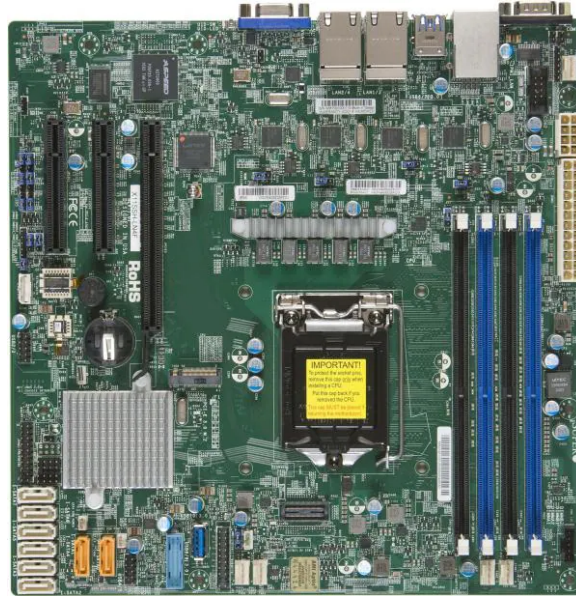


X11SSH-LN4F



Key Features

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®

Intel® C236 chipset

Support Intel® VHD with selected CPU

Up to 64GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slots

Expansion slots:

1 PCIe 3.0 x8 (in x16),

1 PCIe 3.0 x8,

1 PCIe 3.0 x4 (in x8)

M.2 NGFF connector

M.2 Interface: PCIe 3.0 x2

Form Factor: 2280

Key: M-Key

8 SATA3 (6Gbps) via C236; RAID 0, 1, 5, 10

Quad GbE LAN with Intel® i210-AT

I/O: 1 VGA, 2 COM, TPM header

5 USB 3.0 (2 rear, 2 via header(s), 1 Type A), 6 USB 2.0 (2 rear, 4 via header(s))

Optimized Servers

[SYS-5019S-MN4](#)

Specifications

Product SKUs

MBD-X11SSH-LN4F

Physical Stats

Form Factor

Micro-ATX

Dimension

9.6" x 9.6" (24.38cm x 24.38cm)

Processor

CPU

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

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

4 DIMM slots

64GB Unbuffered ECC UDIMM, DDR4-2400MHz

Memory Type

2400/2133/1866/1600 MT/s SDRAM 72-bit, 288-pin gold-plated DIMMs

DIMM Sizes

4GB, 8GB, 16GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

On-Board Devices

Chipset

Intel® C236

SATA

Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2400 BMC

Graphics

1 ASPEED AST2400 BMC port(s)

Network Controllers

Quad LAN with Intel® Ethernet Controller I210-AT

Input / Output

USB

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

1 VGA port(s)

Serial Port

2 COM Port(s) (1 header; 1 rear)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 3.0 x8 (in x16 slot),

1 PCIe 3.0 x8,

1 PCIe 3.0 x4 (in x8 slot)

M.2

M.2 Interface: PCIe 3.0 x2

Form Factor: 2280

Key: M-Key

System BIOS**BIOS Type**

128MB SPI Flash EEPROM with AMI BIOS

BIOS Features

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**

SuperDoctor® 5, NMI, SUM, SPM, Intel® Node Manager, SSM,

IPMI2.0, Watchdog

Power Configurations

Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring**Voltage**

VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V

LED

UID/Remote UID

CPU / System Overheat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

Thermal Monitor 2 (TM2) support

PECI

FAN

5x 4-pin fan headers (up to 5 fans)

Thermal control tachometer fan connectors

Fan speed control

Overheat LED indication

Other Features

WOL

M.2 NGFF connector

CPU thermal trip support for processor protection

Control of power-on for recovery from AC power loss

VHD

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

Standard Parts (Bulk Package)

I/O CablesPart Number CBL-0044L • [eStore](#)

Qty 2

Description 57.5CM SATA FLAT S-S
PBF**I/O Shield**

Part Number MCP-260-00042-0N •

[eStore](#)

Qty 1

Description STD I/O Shield for
X11SSH-LN4F with EMI
Gasket

Standard Parts (Retail Package)

I/O CablesPart Number CBL-0044L • [eStore](#)

Qty 6

Description 57.5CM SATA FLAT S-S
PBF**I/O Shield**

Part Number MCP-260-00042-0N •

[eStore](#)

Qty 1

Description STD I/O Shield for
X11SSH-LN4F with EMI
Gasket**QRG**

Part Number MNL-1778-QRG

Qty 1

Description Motherboard Quick
Reference Guide