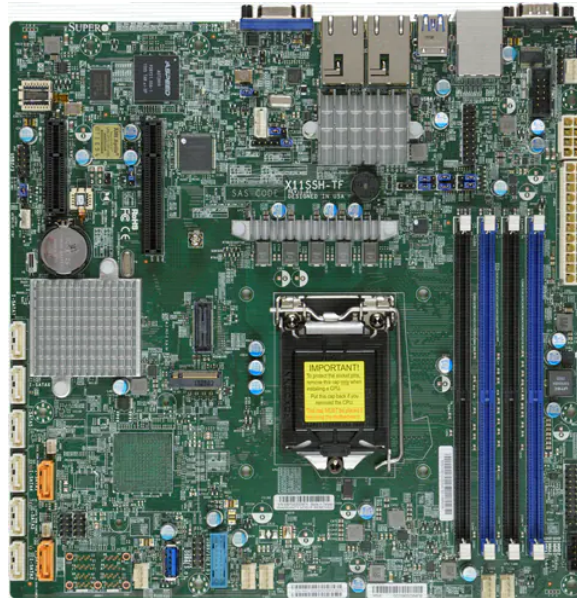


# X11SSH-TF

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## 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

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

Expansion slots:

1 PCIe 3.0 x8, 1 PCIe 3.0 x2 (in x4)

M.2 NGFF connector

**M.2 Interface:** SATA and PCIe 3.0 x4

Form Factor: 2260

Key: M-Key

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

Dual 10GBase-T LAN with Intel® X550

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

2 SuperDOM with built-in power

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-MT](#)

## Specifications

## Product SKUs

### MBD-X11SSH-TF

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## Physical Stats

### Form Factor

Micro-ATX

### Dimension

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

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## 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

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## 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

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## 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

Dual LAN with Intel® X550 10GBase-T Ethernet Controller

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## 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

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## Expansion Slots

### PCIe

1 PCIe 3.0 x8,

1 PCIe 3.0 x2 (in x4 slot)

### M.2

M.2 Interface: SATA; PCIe 3.0 x4

Form Factor: 2260

Key: M-Key

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## System BIOS

### BIOS Type

128MB SPI Flash EEPROM with AMI BIOS

### BIOS Features

APM 1.2

DMI 2.3

PCI 2.3

Plug and Play (PnP)

ACPI 1.0 / 2.0 / 3.0 / 4.0

USB Keyboard support

Hardware BIOS Virus protection

UEFI 2.3.1

SMBIOS 2.7.1

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## 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

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## 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

6x 4-pin fan headers (up to 6 fans)

Thermal control tachometer fan connectors

Fan speed control

Overheat LED indication

### Other Features

WOL

Node Manager Support

CPU thermal trip support for processor protection

Control of power-on for recovery from AC power loss

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## 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)

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## Parts List

### Standard Parts (Bulk Package)

**I/O Cables**

Part Number CBL-0044L • [eStore](#)  
Qty 2  
Description 57.5CM SATA FLAT S-S  
PBF

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**I/O Shield**

Part Number MCP-260-00042-0N •  
[eStore](#)  
Qty 1  
Description STD I/O Shield for  
X11SSH-TF with EMI  
Gasket

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### Standard Parts (Retail Package)

**I/O Cables**

Part Number CBL-0044L • [eStore](#)  
Qty 6  
Description 57.5CM SATA FLAT S-S  
PBF

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**I/O Shield**

Part Number MCP-260-00042-0N •  
[eStore](#)  
Qty 1  
Description STD I/O Shield for  
X11SSH-TF with EMI  
Gasket

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**QRG**

Part Number MNL-1783-QRG  
Qty 1  
Description Motherboard Quick  
Reference Guide

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