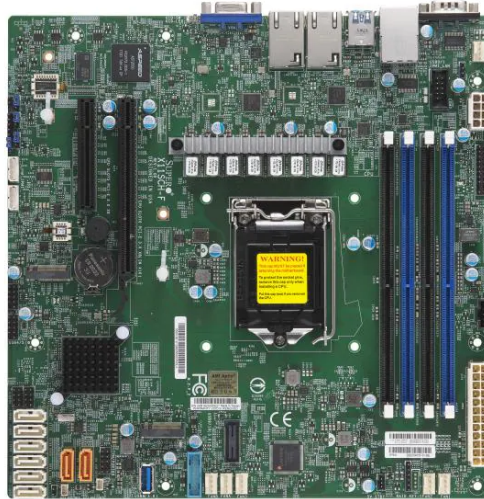


X11SCH-F



Key Features

8th/9th Generation Intel® Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor, Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP

Intel® C246 chipset

Up to 128GB DDR4 2666MHz ECC UDIMM; 4 DIMM slots

Expansion slots: 1 PCIe 3.0 x8 (in x16) and 1 PCIe 3.0 x8 slots

2x M.2 NGFF connectors

M.2 Interface: PCIe 3.0 x4

Form Factor: 2280, 22110

Key: M-Key

8 SATA3 (6Gbps) via C246; RAID 0, 1, 5, 10

2 USB 3.1 Gen 2 (rear); 3 USB 3.1 Gen 1 (1 Type A, 2 via header(s)); 6 USB 2.0 (2 rear, 4 via header(s))

Dual GbE LAN ports via Intel® i210

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

2 SuperDOM with built-in power

Specifications

Product SKUs**MBD-X11SCH-F****Physical Stats****Form Factor**

Micro-ATX

Dimension

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

Processor**CPU**

8th/9th Generation Intel® Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor

Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP

Core

Up to 8 cores, 16 threads

System Memory**Memory Capacity**

4 DIMM slots

Up to 128GB ECC , DDR4-2666MHz

Memory Type

2666/2400/2133 MT/s SDRAM 72-bit,

DIMM Sizes

4GB, 8GB, 16GB, 32GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

On-Board Devices**Chipset**

Intel® C246

SATA

Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500

Graphics

1 ASPEED AST2500 BMC port(s)

Network Controllers

Dual LAN with Intel® Ethernet Controller I210

Input / Output**SATA**

8 SATA3 (6Gbps) port(s)

LAN

2 RJ45 Gigabit Ethernet LAN ports

USB

6 USB 2.0 port(s) (4 via header; 2 rear)

3 USB 3.1 Gen1 port(s) (2 via header; 1 type A)

2 USB 3.1 Gen2 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

M.2

M.2 Interface: PCIe 3.0 x4

Form Factor: 22110, 2280

Key: M-Key

System BIOS**BIOS Type**

256MB UEFI

BIOS Features

ACPI 6.0

SMBIOS 2.7

Plug and Play (PnP)

RTC (Real Time Clock) Wakeup

UEFI 2.7

USB Keyboard support

PCI 3.0

Management**Software**SuperDoctor® 5, NMI, [SUM](#), [SPM](#), Intel® Node Manager, [SSM](#),[IPMI2.0](#), Watchdog**System Management Software**

IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

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, Chipset Voltage, Chassis intrusion header, 6 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages

LED

UID/Remote UID

CPU / System Overheat LED

FAN

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

Thermal control tachometer fan connectors

Fan speed control

6 fans with tachometer status monitoring

Overheat LED indication

Other Features

WOL, UID, Node Manager Support, M.2 NGFF connector, Dual Cooling Zones, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, ACPI power management

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 Cables

Part 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 X11SCH-F with EMI Gasket

Standard Parts (Retail Package)**I/O Cables**

Part 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 X11SCH-F with EMI Gasket

QRG

Part Number	MNL-2105-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts**TPM security module**

Part Number	AOM-TPM-9671H	AOM-TPM-9670H	AOM-TPM-9671V	AOM-TPM-9670V
Qty	--	--	--	--
Description	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor