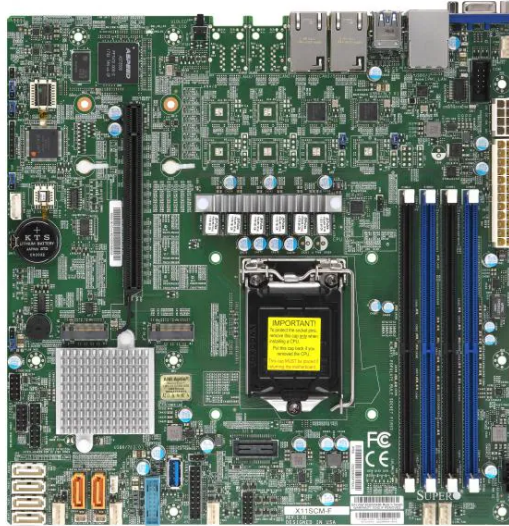


X11SCM-F



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

Dual LAN with Intel® Ethernet Controller I210-AT

Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots

1 PCIe 3.0 x16

M.2 Interface: 1 SATA/PCIe 3.0 x4 and 1 PCIe 3.0 x4

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

Double Height Connector

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

2 SuperDOM with built-in power

5x USB 3.0 ports, 4x USB 2.0 ports

1 VGA, 1 COM, 1 TPM

Optimized Servers

[SYS-5019C-M](#)

[SYS-5019C-MR](#)

Specifications

Product SKUs

MBD-X11SCM-F

Physical Stats

Form Factor

microATX

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

Note

BIOS version 1.0b or above is required to support Intel® Xeon® E-2200 and 9th Generation Intel® Core™ i3/Pentium®/Celeron® Processors

System Memory

Memory Capacity

4 DIMM slots

Up to 128GB Unbuffered ECC UDIMM, 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 6 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-AT

Input / Output

SATA

6 SATA3 (6Gbps) port(s)

LAN

2 RJ45 Gigabit Ethernet LAN ports

USB

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

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

Video Output

1 VGA port(s)

Serial Port

1 COM Port(s) (1 header)

TPM

1 TPM Header

Expansion Slots

PCIe

1 PCIe 3.0 x16

M.2

M.2 Interface: 1 SATA/PCIe 3.0 x4; 1 PCIe 3.0 x4

Form Factor: 2280/22110

Key: M-Key

Double Height Connector

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

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

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

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-260-00130-0N
Qty	1
Description	STD I/O Shield for X11SCM-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-260-00130-0N
Qty	1
Description	STD I/O Shield for X11SCM-F with EMI Gasket

QRG

Part Number	MNL-2075-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts

1U I/O Shield

Part Number	MCP-260-00132-0B	MCP-260-00131-0N
Qty	1	1
Description	1U I/O Shield for X11SCM-F with EMI Gasket (for standard 1U chassis: SC510, SC504, SC505)	1U I/O Shield for X11SCM-F with EMI Gasket (for standard 1U chassis: SC813M, SC815, SC512, SC514, SC515, SC113)

TPM security module

Part Number	AOM-TPM-9671H	AOM-TPM-9670H	AOM-TPM-9671V	AOM-TPM-9670V
Qty	1	1	1	1
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