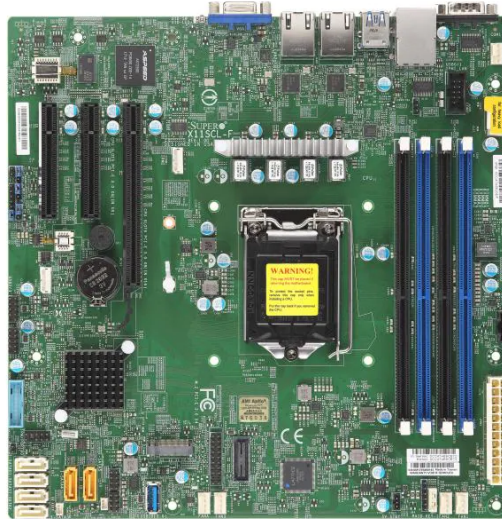


# X11SCL-F

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## 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® C242 chipset

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

Expansion slots:

1 PCIe 3.0 x8 (in x16),

2 PCIe 3.0 x4 (in x8)

Dual GbE LAN with Intel® i210-AT

M.2 NGFF connector

6 SATA3 (6Gbps) ports;

RAID 0, 1, 5, 10

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

Support up to 6 Cores

## Optimized Servers

[SYS-5039C-I](#)

## Specifications

**Product SKUs****MBD-X11SCL-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 6 cores, 12 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**

2667/2400/2133 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® C242

**SATA**

Intel® C242 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 1GbE with Intel® I210

**Input / Output****USB**

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

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

**Video Output**

1 VGA port(s)

**Serial Port**

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

**DOM**2 SATA DOM (Disk on Module) power connector support**TPM**

1 TPM Header

**Expansion Slots****PCIe**

1 PCIe 3.0 x8 (in x16 slot),

2 PCIe 3.0 x4 (in x8 slot)

**M.2**

M.2 Interface: 1 PCIe 3.0 x4

Form Factor: 2280/22110

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, SUM, KVM with dedicated LAN, SSM, IPMI2.0**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, 5 -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**

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

Thermal control tachometer fan connectors

PWM fan speed control

5 fans with tachometer status monitoring

Overheat LED indication

**Other Features**

WOL, UID, 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

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### I/O Shield

Part Number MCP-260-00042-0N •

[eStore](#)

Qty 1

Description STD I/O Shield for X11SCL-F 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 X11SCL-F with EMI Gasket

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### QRG

Part Number MNL-2063-QRG

Qty 1

Description Motherboard Quick Reference Guide

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## Optional Parts

### 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

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