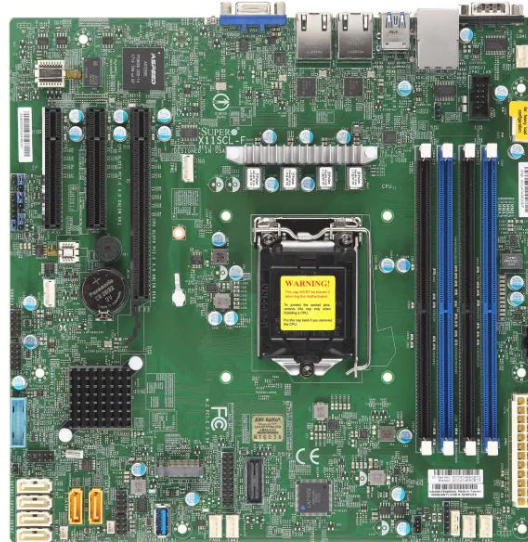


X11SCL-F



Key Features

1. 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
2. Intel® C242 chipset
3. Up to 128GB DDR4 2666MHz ECC UDIMM; 4 DIMM slots
4. Expansion slots:
 - 1 PCI-E 3.0 x8 (in x16),
 - 2 PCI-E 3.0 x4 (in x8)
5. Dual GbE LAN with Intel® i210-AT
6. M.2 NGFF connector
7. 6 SATA3 (6Gbps) ports;
RAID 0, 1, 5, 10
8. I/O: 1 VGA, 2 COM, 2 SuperDOM, and TPM header
9. Support up to 6 Cores

Specifications

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x8 (in x16 slot), 2 PCI-E 3.0 x4 (in x8 slot)
M.2	<ul style="list-style-type: none"> M.2 Interface: 1 PCI-E 3.0 x4 Form Factor: 2280/22110 Key: M-Key

System BIOS

BIOS Type	<ul style="list-style-type: none"> 256MB UEFI
BIOS Features	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> SuperDoctor® 5, <u>SUM</u>, KVM with dedicated LAN, <u>SSM</u>, <u>IPMI2.0</u>
Power Configurations	<ul style="list-style-type: none"> Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> UID/Remote UID CPU / System Overheat LED
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

Product SKUs

MBD-X11SCL-F ■ 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 ECC UDIMM, DDR4-2666MHz

Memory Type ■ 2667/2400/2133MHz 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 ■ ASPEED AST2500 BMC

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

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

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCL-F	1	X11SCL-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SCL-F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCL-F	1	X11SCL-F Motherboard
I/O Cables	CBL-0044L • <i>eStore</i>	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • <i>eStore</i>	1	STD I/O Shield for X11SCL-F with EMI Gasket
QRG	MNL-2063-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module	<u>AOM-TPM-9671H</u>	1	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
	<u>AOM-TPM-9670H</u>	1	
	<u>AOM-TPM-9671V</u>	1	
	<u>AOM-TPM-9670V</u>	1	

Chassis (Optimized for X11SCL-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	<u>SC813MFTQC-R407CB</u> <u>SC515-R407</u> <u>SC514-R407C</u> <u>SC113MTQ-R400CB</u>	<u>SCLA25TQC-R609LP</u>		● <u>SC731i-403B</u> ● <u>SC731i-404B</u>	

● = Most optimized Chassis for SuperServer Configuration
 Blue color = Compatible
 Green color = Global SKU & Compatible
 Red dot & green color = Optimized + Global SKU

Server (Optimized for X11SCL-F)

Server Name
<u>SYS-5039C-I</u>

