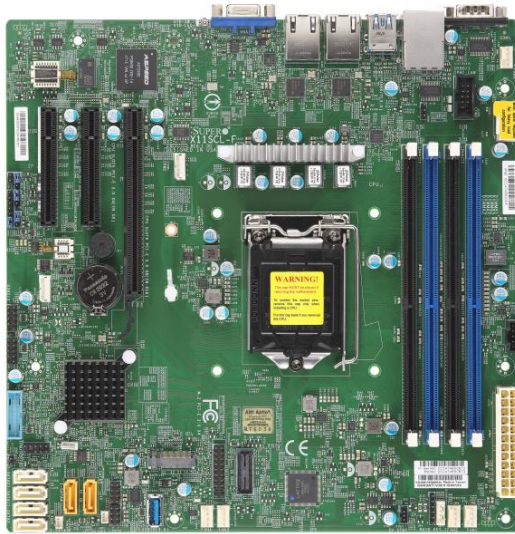


X11SCL-F



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 support 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. 6 SATA3 (6Gbps) ports;
RAID 0, 1, 5, 10
7. M.2 NGFF connector
8. M.2 Interface: 1 PCI-E 3.0 x4
Form Factor: 2280/22110
Key: M-Key
Double Height Connector
9. I/O: 1 VGA, 2 COM, 2 SuperDOM, and TPM header

Links & Resources

[Tested Memory List](#)

[Tested HDD / SSD List](#)

[Tested M.2 List](#)

[Tested AOC List](#)

[Motherboard Manual](#)

[Quick Reference Guide](#)

[Update Your BIOS](#)

[BMC/IPMI Firmware](#)

[Download the Latest Drivers and Utilities](#)

[Download Driver CD](#)

[OS Compatibility](#)

[Optimization](#)

Specifications

Product SKUs

MBD-X11SCL-F	■ X11SCL-F
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Physical Stats

Form Factor	■ microATX
Dimensions	■ 9.6" x 9.6" (24.38cm x 24.38cm)

Processor/Cache

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 support Up to 95W TDP
Cores / Cache	■ 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	■ Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Memory Type	■ 2667/2400/2133MHz ECC DDR4 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
Network Controllers	■ Dual LAN with 1GbE with Intel® I210
Graphics	■ Aspeed AST2500 BMC

Input / Output

USB	■ 6 USB 2.0 ports (2 rear + 4 via headers) ■ 5 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers, 1 Type A)
Video Output	■ 1 VGA port
Serial Port / Header	■ 2 COM Ports (1 rear, 1 header)
TPM	■ 1 TPM Header

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x8 (in x16 slot), ■ 2 PCI-E 3.0 x4 (in x8 slot)
M.2	■ M.2 Interface: 1 PCI-E 3.0 x4 ■ Form Factor: 2280/22110 ■ Key: M-Key ■ Double Height Connector

System BIOS

BIOS Type	■ UEFI 256Mb
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	■ IPMI2.0, KVM with dedicated LAN, SSM, SUM, SuperDoctor® 5
Power Configurations	■ ACPI Power Management ■ Power-on mode for AC power recovery

PC Health Monitoring

Voltage	■ +12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT
FAN	■ 5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors
Temperature	■ Thermal Monitor 2 (TM2) support, CPU thermal trip support, PECI, Monitoring for CPU and chassis environment
LED	■ CPU / System Overheat LED, UID/Remote UID
Other Features	■ ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, UID, WOL

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

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCL-F	1	X11SCL-F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	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
QRG	MNL-2063-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O Shield for X11SCL-F with EMI Gasket

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module	AOM-TPM-9670H	1	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
TPM security module	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
TPM security module	AOM-TPM-9671H	1	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor
TPM security module	AOM-TPM-9671V	1	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor

Chassis (Optimized for X11SCL-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC813MFTQC-R407CB SC514-R407C SC515-R407 SC113MTQ-R400CB 1U Heatsink:SNK-P0046P			● SC731i-403B 2U Heatsink:SNK-P0046A4	

● = 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
SYS-5039C-I