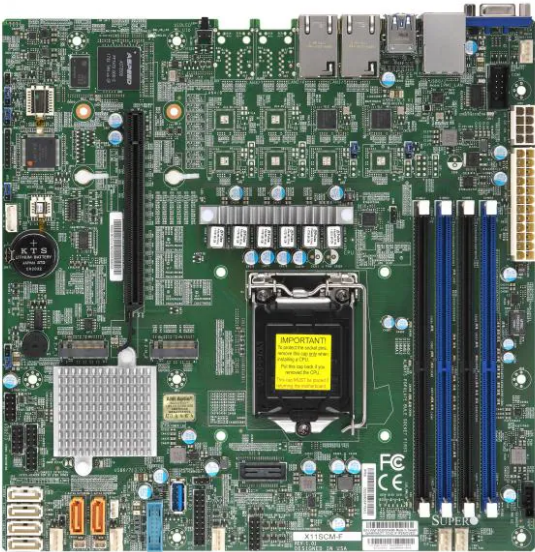


X11SCM-F



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® C246
- 3. Dual LAN with Intel® Ethernet Controller I210-AT
- 4. Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
- 5. 1 PCI-E 3.0 x16
 - M.2 Interface:** 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
 - M.2 Form Factor:** 2280/22110
 - M.2 Key:** M-Key
 - Double Height Connector
- 6. Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- 7. 2 SuperDOM with built-in power
- 8. 5x USB 3.0 ports, 4x USB 2.0 ports
- 9. 1 VGA, 1 COM, 1 TPM

Specifications

Expansion Slots

PCI-E	1 PCI-E 3.0 x16
M.2	- M.2 Interface: 1 SATA/PCI-E 3.0 x4; 1 PCI-E 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, <u>SUM</u>, <u>SPM</u>, Intel® Node Manager, <u>SSM</u>, <u>IPMI2.0</u>, 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

Product SKUs	
MBD-X11SCM-F	■ 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 ECC UDIMM, DDR4-2666MHz
Memory Type	■ 2666/2400/2133MHz SDRAM 72-bit,
DIMM Sizes	■ 4GB, 8GB, 16GB, 32GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors
On-Board Devices	
Chipset	■ Intel® C246
SATA	■ Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Graphics	■ ASPEED AST2500 BMC
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

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-X11SCM-F	1	X11SCM-F Motherboard
I/O Cables	CBL-0044L • eStore	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00130-0N	1	STD I/O Shield for X11SCM-F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCM-F	1	X11SCM-F Motherboard
I/O Cables	CBL-0044L • eStore	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00130-0N	1	STD I/O Shield for X11SCM-F with EMI Gasket
QRG	MNL-2075-QRG	1	Motherboard Quick Reference Guide

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00132-0B	1	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)
	MCP-260-00131-0N	1	
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 X11SCM-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>SC512F-350B1</u> ● <u>SC813MFTQC-350CB2</u> <u>SC515-350</u>	<u>SC825TQC-R740LPB</u> <u>SC825TQC-R802LPB</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 X11SCM-F)

Server Name
<u>SYS-5019C-M</u>
<u>SYS-5019C-MR</u>

