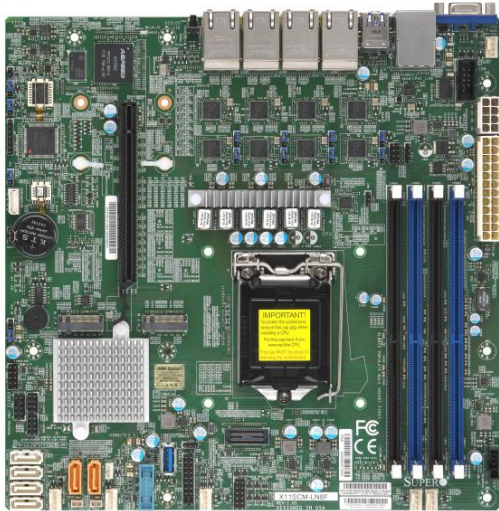




Eight 1GbE RJ45

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® C246
3. Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
4. 8 LAN with Intel® Ethernet Controller I210-AT
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. 5x USB 3.0 ports, 4x USB 2.0 ports
8. 1 VGA, 1 COM, 1 TPM
9. 2 SuperDOM with built-in power

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-X11SCM-LN8F	■ X11SCM-LN8F
------------------------	---------------

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	■ 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	■ Up to 128GB Unbuffered ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Memory Type	■ 2666/2400/2133MHz 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® C246
SATA	■ Intel® C246 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Network Controllers	■ 8 LAN with Intel® Ethernet Controller I210-AT
Graphics	■ Aspeed AST2500 BMC

Input / Output

SATA	■ 6 SATA3 (6Gbps) port
LAN	■ 8 RJ45 Gigabit Ethernet LAN ports
USB	■ 4 USB 2.0 ports (2 rear + 2 via headers) ■ 5 USB 3.1 Gen1 ports(2 rears, 2 via headers, 1 Type A)
Video Output	■ 1 VGA port
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ 1 TPM Header

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x16
M.2	■ M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 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	■ Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
System Mangement Software	■ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
Power Configurations	■ ACPI Pow er Management

PC Health Monitoring

Voltage	■ +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT
FAN	■ 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
Temperature	■ Monitoring for CPU and chassis environment, CPU thermal trip support, Thermal Monitor 2 (TM2) support, PECI
LED	■ UID/Remote UID, CPU / System Overheat LED
Other Features	■ ACPI pow er management, Chassis intrusion detection, Chassis intrusion header, Control of pow er-on for recovery from AC pow er loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, 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-X11SCM-LN8F	1	X11SCM-LN8F Motherboard
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00130-0N	1	STD I/O Shield for X11SCM-LN8F with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCM-LN8F	1	X11SCM-LN8F Motherboard
QRG	MNL-2075-QRG	1	Motherboard Quick Reference Guide
I/O Cables	CBL-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00130-0N	1	STD I/O Shield for X11SCM-LN8F with EMI Gasket

Optional Parts List			
Name	Part Number	Qty	Description
1U I/O Shield	MCP-260-00131-0N	1	1U I/O Shield for X11SCM-LN8F with EMI Gasket (for standard 1U chassis: SC813M, SC815, SC512, SC514, SC515, SC113)
1U I/O Shield	MCP-260-00132-0B	1	1U I/O Shield for X11SCM-LN8F with EMI Gasket (for standard 1U chassis: SC510, SC504, SC505)
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 X11SCM-LN8F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
	SC813MFTQC-350CB2 SC813MFTQC-R407CB SC512F-350B1 SC515-350 SC515-R407 SC514-R407C SC113MTQ-R400CB 1U Heatsink:SNK-P0046P	SC825TQC-R740LPB 2U Heatsink:SNK-P0046A4			

[SC825TQC-R740LPB](#)

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 X11SCM-LN8F)

Server Name
SYS-1019C-FHTN8