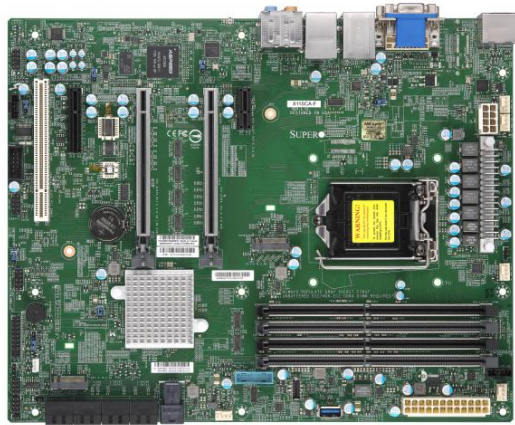




Workstation

Key Features

1. Intel® 8th/9th Generation Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® series 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/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
4. 1 PCI-E 3.0 x4,
1 PCI-E 3.0 x1,
2 PCI-Ex16 slots are running at NA/16, or 8/8
1 - 5V PCI 32bit
M.2 Interface: 2 PCI-E 3.0 x4
M.2 Form Factor: 2242/2260/2280/22110
M.2 Key: M-Key
M.2#1~2 are shared w ith PCI-Ex4 slot, M.2#2 is shared w ith U.2
U.2 Interface: 1 PCI-E 3.0 x4
5. 1 HDMI port, 1 DVI - D port, 1 DP (DisplayPort) port, 1 VGA port,
Intel UHD P630 graphic(For CPU Xeon E-21XXG series only)
6. Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Single LAN w ith Intel® Ethernet Controller I210-AT
Shared w ith IPMI
Single LAN w ith Intel® PHY I219LM LAN controller

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-X11SCA-F	■ X11SCA-F
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Physical Stats

Form Factor	■ ATX
Dimensions	■ 12" x 9.6" (30.48cm x 24.38cm)

Processor/Cache

CPU	■ Intel® 8th/9th Generation Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® series 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
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System Memory

Memory Capacity	■ Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
Memory Type	■ 2666/2400/2133/1866/1600MHz ECC/Non-ECC DDR4 SDRAM 72-bit 288-pin UDIMM
DIMM Sizes	■ 1GB, 2GB, 4GB, 8GB, 16GB, 32GB
Memory Voltage	■ 1.2V

On-Board Devices

Chipset	■ Intel® C246
SATA	■ Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	■ ASPEED AST2500
Network Controllers	■ Single LAN with Intel® Ethernet Controller I210-AT Shared with IPMI ■ Single LAN with Intel® PHY I219LM LAN controller
Audio	■ ALC 888S HD Audio
Graphics	■ Aspeed AST2500 BMC ■ Intel UHD P630 graphic(For CPU Xeon E-21XXG series only)

Input / Output

LAN	■ 2 1GbE LAN ports
USB	■ 2 USB 2.0 ports (2 via headers, Type A)) ■ 4 USB 3.1 Gen1 ports (2 Rears Type A, 2 via headers) ■ 4 USB 3.1 Gen2 ports (1 Rear Type A + 1 Rear Type C, 1 via header, 1 Type A)
Video Output	■ 1 HDMI port, 1 DVI - D port, 1 DP (DisplayPort) port, 1 VGA port, ■ Intel UHD P630 graphic(For CPU Xeon E-21XXG series only)
Serial Port / Header	■ 1 COM Port (1 header)
TPM	■ 1 TPM Header

Expansion Slots

PCI-E	■ 1 PCI-E 3.0 x4, ■ 1 PCI-E 3.0 x1, ■ 2 PCI-Ex16 slots are running at NA/16, or 8/8 ■ ■ 1 - 5V PCI 32bit
M.2	■ M.2 Interface: 2 PCI-E 3.0 x4 ■ Form Factor: 2242/2260/2280/22110 ■ Key: M-Key ■ M.2#1~2 are shared with PCI-Ex4 slot, M.2#2 is shared with U.2

System BIOS

BIOS Type	■ UEFI 128Mb
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Management

Software	■ IPMI2.0, SSM, SUM, SuperDoctor® 5, Watchdog
System Management Software	■ IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support ■ *** OOB Bios refresh is not supported on X11SCA-F ■ SuperDoctor 5
Power Configurations	■ ACPI Power Management ■ ATX Power connector ■ Power-on mode for AC power recovery ■ Keyboard Wakeup from Soft-Off

PC Health Monitoring

Voltage	■ +1.8V, +12V, +3.3V, +5V, +5V standby, 5 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, VBAT
FAN	■ 5 fans with tachometer status monitoring, Fan speed control, Low noise fan speed control, PWM fan speed control
Temperature	■ N/A
LED	■ Standby alert LED
Other Features	■ 8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, RoHS, WOL

Operating Environment

Operating Temperature Range	■ 0°C ~ 50°C (32°F ~ 122°F)
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Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCA-F	1	X11SCA-F Motherboard
SATA cable	CBL-0044L	2	SATA3 Cable
IO shield	MCP-260-00122-0N	1	X11SCA Series IO Shield
M.2 SSD Holder	MCP-450-00005-0B or MCP-450-00006-0B	2	M.2 SSD Holder

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCA-F	1	X11SCA-F Motherboard
SATA cable	CBL-0044L	6	SATA3 Cable
IO shield	MCP-260-00122-0N	1	X11SCA Series IO Shield
M.2 SSD Holder	MCP-450-00005-0B or MCP-450-00006-0B	2	M.2 SSD Holder
Quick Reference Guide	MNL-2087-QRG	1	X11SCA Series Quick Reference Guide

Chassis (Optimized for X11SCA-F)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
				SC732D4-500B SC732D4-903B SC732D3-1200B SCGS5A-753K SCGS5A-753B 4U Heatsink:SNK-P0051AP4	

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