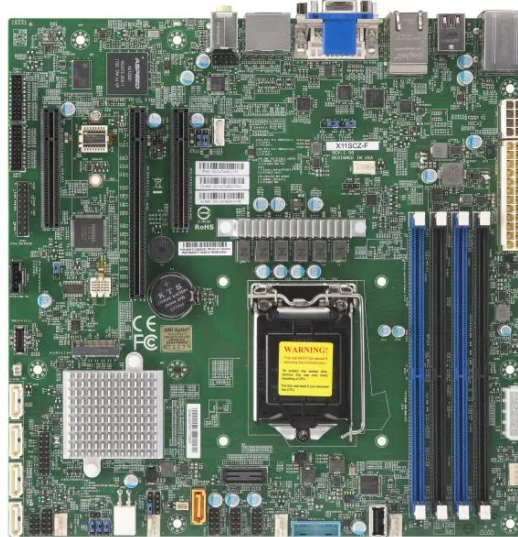


X11SCZ-F



Embedded High Performance IPMI

Key Features

8th/9th Generation Intel® Core™ i9/Core™ i7/Core™ i5/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

Intel® C246

Single LAN with Intel® Ethernet Controller I210-AT

Single LAN with Intel® PHY I219LM LAN controller

Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots

1 PCIe 3.0 x16,

2 PCIe 3.0 x4 (in x8 slot)

1 M.2 M-Key SATA/PCIe 3.0 x4, 2280/22110

Intel® C246 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port, 1 DVI - I port, 2 DP (DisplayPort) ports,

3 Independent Displays

Optimized Servers

[SYS-1019C-HTN2](#)

[SYS-5019C-MHN2](#)

Specifications

Product SKUs**MBD-X11SCZ-F****Physical Stats****Form Factor**

uATX

Dimension

9.6" x 9.6" (24.38cm x 24.38cm)

Processor**CPU**

8th/9th Generation Intel® Core™ i9/Core™ i7/Core™ i5/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

A graphic integrated CPU is required to have onboard video from the DVI and DP ports

System Memory**Memory Capacity**

4 DIMM slots

Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2666MHz

Memory Type

2666/2400/2133/1866/1600 MT/s SDRAM 72-bit, 288-pin

DIMM Sizes

4GB, 8GB, 16GB, 32GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

On-Board Devices**Chipset**

Intel® C246

SATA

Intel® C246 controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500

Audio

ALC 888S HD Audio

Graphics

1 Intel® HD Graphics port(s)

1 ASPEED AST2500 BMC port(s)

3 Independent Displays

Network Controllers

Single LAN with Intel® PHY I219LM LAN controller

Single LAN with Intel® Ethernet Controller I210-AT

Input / Output**LAN**

2 RJ45 Gigabit Ethernet LAN ports

USB

6 USB 3.1 Gen2 port(s) (2 via header; 1 rear type C; 3 rear type A)

7 USB 2.0 port(s) (6 via header; 1 Type A)

2 USB 3.1 Gen1 port(s) (2 via header)

Video Output

1 VGA D-Sub Connector port(s), 2 DP (DisplayPort) port(s), 1 DVI - I port(s)

Serial Port

4 COM Port(s) (4 header)

DOM1 SATA **DOM** (Disk on Module) power connector support**TPM**

1 TPM Header & Chip both

Expansion Slots**PCIe**

1 PCIe 3.0 x16,

2 PCIe 3.0 x4 (in x8 slot)

M.2

M.2 Interface: 1 SATA/PCIe 3.0 x4

Form Factor: 2280/22110

Key: M-Key

System BIOS**BIOS Type**

AMI UEFI

BIOS Features

ACPI 6.1

SMBIOS 3.1

PCI FW 3.0

UEFI 2.6

RTC (Real Time Clock) Wakeup

Management**Software**

SuperDoctor® 5, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support

System Management Software

IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

Power Configurations

ACPI Power Management, ATX Power connector, +12V DC Power Input

PC Health Monitoring**Voltage**

VBAT, System temperature, Monitors CPU voltages, Chassis intrusion header, 6 -fan status, 3.3V standby, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, Memory Voltages

LED

UID/Remote UID

Temperature

Thermal Control for 6 Fan Connectors

FAN

6x 4-pin fan headers (up to 6 fans)

Fan speed control

Dual Cooling Zone

6 fans with tachometer status monitoring

Other Features

UID, RoHS, M.2 NGFF connector, Dual Cooling Zones, Chassis intrusion header, ATX Power connector, ACPI power management, 8-pin 12V DC power connector, 12V DC or ATX Power Source

Operating Environment**Operating Temperature Range**

0°C - 60°C (32°F - 140°F)

Non-Operating Temperature Range

-40°C - 85°C (-40°F - 185°F)

Operating Relative Humidity Range

10% - 85% (non-condensing)

Non Operating Relative Humidity Range

5% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Cables

Part Number	CBL-0044L • eStore
Qty	2
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00126-0N
Qty	1
Description	Standard I/O Shield for X11SCZ with EMI Gasket

Standard Parts (Retail Package)

I/O Cables

Part Number	CBL-0044L • eStore
Qty	5
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00126-0N
Qty	1
Description	Standard I/O Shield for X11SCZ with EMI Gasket

QRG

Part Number	MNL-2086-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts

1U I/O Shield

Part Number	MCP-260-00127-0N	MCP-260-00128-0B
Qty	--	--
Description	1U I/O Shield for X11SCZ with EMC Gasket in SC813 Chassis	1U I/O Shield for X11SCZ with EMC Gasket in SC510 Chassis

Serial Port Cable

Part Number	CBL-CUSB-0984 • eStore
Qty	--
Description	Dual Serial Port Breakout Cable 20cm

USB3.1 Cable

Part Number	CBL-CUSB-0835 • eStore
Qty	--
Description	Dual USB3.1 Type A Cable with Bracket