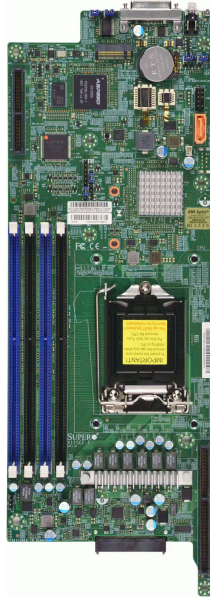# X11SCE-F (For SuperServer Only)



**MicroCloud**

## Key Features

Single socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100, E-2200, Intel® 8th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®

Intel® C246 chipset

Up to 128GB Unbuffered ECC UDIMM DDR4 2400MHz; 4 DIMM slot

1 M.2 PCIe 3.0 x4 Form Factor: 2280/22110

1 VGA, 2 USB 2.0, 1 COM via KVM dongle

4 SATA 3.0 (RAID 0, 1, 5, 10) or 2 U.2 NVMe drives

## Optimized Servers

SYS-5039MC-H12TRF

## Specifications

## Product SKUs
**MBD-X11SCE-F**

## Physical Stats
**Form Factor**
Proprietary
**Dimension**
4.6" x 11.7" (11.68cm x 29.72cm)

## Processor
**CPU**
Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor, Intel® Celeron®, Intel® Pentium®, 8th Generation Intel® Core™ i3 Processor Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 80W TDP

## System Memory
**Memory Capacity**
4 DIMM slots
128GB Unbuffered ECC UDIMM, DDR4-2666MHz
**Memory Type**
N/A
**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 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
**IPMI**
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
HDD Fail detection via IPMI
**Graphics**
1 ASPEED AST2500 BMC port(s)
Via KVM Connector
**Network Controllers**
Single LAN with Realtek RTL8211E PHY (dedicated IPMI), via Backplane

## Input / Output
**LAN**
1 RJ45 Dedicated IPMI LAN port
**USB**
2 USB 2.0 port(s) (2 rear)
USB 2.0 via KVM Connector
**Video Output**
1 VGA port(s)
**Serial Port**
1 fast UART 16550 Serial
1 COM Port(s) (1 rear), Via KVM Connector
**DOM**
1 SuperDOM (Disk on Module) port with build power
**TPM**
1 TPM Header
**Others**
1 KVM Connector for VGA
1 USB 0 and COM Ports

## Expansion Slots
**PCIe**
1 PCIe 3.0 x8 (Micro Low Profile)
**M.2**
M.2 Interface: 11 SATA/PCIe 3.0 x4
Form Factor: 2242/2280/22110
Key: M-Key

## System BIOS
**BIOS Type**
256MB UEFI
**BIOS Features**
ACPI 6.1
SMBIOS 2.8
SMBIOS 3.1
UEFI 2.7
USB Keyboard support
Plug and Play (PnP)

## Management
**Software**
SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, Intel® Node Manager, IPMI2.0, 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, SUM
**Power Configurations**
Power-on mode for AC power recovery, ACPI Power Management, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss

## PC Health Monitoring
**Voltage**
VBAT, System temperature, System level control, Supports system management utility, Monitors CPU voltages, Memory, HT, +5V standby, +5V, +3.3V, +12V, +1.8V, Monitors for CPU Cores, Memory Voltages
**LED**
UID/Remote UID
Power LED
BMC/IPMI Heartbeat LED
CPU / System Overheat LED
**Temperature**
Monitoring for CPU and chassis environment
CPU thermal trip support
Thermal Monitor 2 (TM2) support
PECI
I2C temperature sensing logic
**FAN**
Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication
**Other Features**
WOL, UID, System level control, RoHS, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss

## Operating Environment
**Operating Temperature Range**
0°C - 50°C (32°F - 122°F)
**Non-Operating Temperature Range**
-20°C - 60°C (-4°F - 140°F)

**Operating Relative Humidity Range**

10% - 85% (non-condensing)

**Non Operating Relative Humidity Range**

10% - 95% (non-condensing)

# Parts List