

X11SCD-F (For SuperServer Only)



MicroCloud

Key Features

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100, E-2200, Intel® 8th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® C246 chipset
3. Up to 128GB Unbuffered ECC UDIMM DDR4 2666 MHz; 4 DIMM slot
4. 1 M.2 M-key SATA/PCI-E 3.0 x4 2242/2280, 1 M.2 M-key SATA/PCI-E 3.0 x4 2242/2280/22110
5. 2 SATA (6Gbps)
6. 1 VGA, 2 USB 2.0, 1 COM via KVM dongle

Specifications

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 1 PCI-E 3.0 x8 (Micro Low Profile), 1 PCI-E 3.0 x8
M.2	<ul style="list-style-type: none"> M.2 Interface: 1 SATA/PCI-E 3.0 x4; 1 SATA/PCI-E 3.0 x4 Form Factor: 2242/2280, 2242/2280/22110 Key: M-Key, M-Key

System BIOS

BIOS Type	<ul style="list-style-type: none"> 256MB UEFI
BIOS Features	<ul style="list-style-type: none"> ACPI 6.2 SMBIOS 3.0 or later PCI FW 3.2 USB Keyboard support Plug and Play (PnP)

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support
System Management Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support, <u>SUM</u>
Power Configurations	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> UID/Remote UID Power LED BMC/IPMI Heartbeat LED CPU / System Overheat LED
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI I2C temperature sensing logic
FAN	<ul style="list-style-type: none"> Thermal control tachometer fan connectors, System level control, PWM fan speed control, Fan speed control, Pulse Width Modulated (PWM) fan connectors, Overheat LED indication

Product SKUs

MBD-X11SCD-F	▪ X11SCD-F
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Physical Stats

Form Factor	▪ Proprietary
Dimension	▪ 4.66" x 18.5" (11.84cm x 46.99cm)

Processor

CPU	<ul style="list-style-type: none"> ▪ Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor, Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3 series ▪ Single Socket LGA-1151 (Socket H4) supported, CPU TDP supports Up to 95W TDP
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ▪ 4 DIMM slots ▪ 128GB ECC UDIMM, DDR4-2666MHz
Memory Type	▪ N/A
DIMM Sizes	▪ 4GB, 8GB, 16GB, 32GB
Memory Voltage	▪ 1.2V
Error Detection	<ul style="list-style-type: none"> ▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	▪ Intel® C246
SATA	▪ Intel® C246 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	<ul style="list-style-type: none"> ▪ ASPEED AST2500 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ▪ ASPEED AST2500 BMC ▪ 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	<ul style="list-style-type: none"> ▪ 2 USB 2.0 port(s) (2 rear) ▪ USB 2.0 via KVM Connector
Video Output	▪ 1 VGA port(s)
Serial Port	<ul style="list-style-type: none"> ▪ 1 fast UART 16550 Serial ▪ 1 COM Port(s) (1 rear), Via KVM Connector
TPM	▪ 1 TPM Header
Others	<ul style="list-style-type: none"> ▪ 1 KVM Connector for VGA ▪ 1 USB 0 and COM Ports

Other Features

- WOL, UID, System level control, RoHS, 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

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11SCD-F	1	X11SCD-F Motherboard

Server (Optimized for X11SCD-F)

Server Name
<u>SYS-5039MC-H8TRE</u>

