

X12STL-IF



Key Features

Intel® Xeon® E-2300 Processor, 10th Generation Intel® Pentium® Processor, Single Socket LGA-1200 (Socket H5) supported, CPU supports Up to 95W TDP

Intel® C252

Up to 64GB Unbuffered ECC UDIMM, DDR4-3200MHz, in 2 DIMM slots

1 PCIe 4.0 x16

M.2 Interface: 1 PCIe 3.0 x4

M.2 Form Factor: 2280

M.2 Key: M-Key

Dual LAN with Intel® i210 Gigabit Ethernet Controller

Intel® C252 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port

2 SuperDOM with built-in power

4x USB 3.2 Gen1 (2 rear, 2 via header), 4x USB 2.0 (2 rear, 2 via headers)

Specifications

Product SKUs

MBD-X12STL-IF

Physical Stats

Form Factor

Mini-ITX

Dimension

6.7" x 6.7" (17.02cm x 17.02cm)

Processor

CPU

10th Generation Intel® Pentium® Processor, Intel® Xeon® E-2300 Processor

Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 95W TDP

Core

Up to 8 cores

System Memory

Memory Capacity

2 DIMM slots

Up to 64GB Unbuffered ECC UDIMM, DDR4-3200MHz

Memory Type

3200/2933/2666 MT/s SDRAM

DIMM Sizes

4GB, 8GB, 16GB, 32GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

On-Board Devices

Chipset

Intel® C252

SATA

Intel® C252 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

Dual LAN with Intel® i210 Gigabit Ethernet Controller

Input / Output

SATA

6 SATA3 (6Gbps) port(s)

LAN

2 RJ45 Gigabit Ethernet LAN ports

USB

4 USB 2.0 port(s) (2 via header; 2 rear)

4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

1 COM Port(s) (1 rear)

DOM

2 SATA [DOM \(/SATADOM/\)](#). (Disk on Module) power connector support

TPM

1 TPM Header

Expansion Slots

PCIe

1 PCIe 4.0 x16

M.2

M.2 Interface: 1 PCIe 3.0 x4

Form Factor: 2280

Key: M-Key

System BIOS

BIOS Type

256MB UEFI

BIOS Features

ACPI 6.0

SMBIOS 3.3

Plug and Play (PnP)

RTC (Real Time Clock) Wakeup

UEFI 2.7

USB Keyboard support

PCI 3.0

Management

Software

[Redfish API \(/manuals/other/RedfishRefGuide.pdf\)](#),

[Supermicro Server Manager \(SSM\)](#),

[\(/solutions/SMS_SSM.cfm\)](#), [Supermicro Update Manager \(SUM\)](#), [\(/solutions/SMS_SUM.cfm\)](#),

[SuperDoctor® 5 \(/en/solutions/management-](#)

[software/superdoctor\)](#), [Super Diagnostics Offline](#)

[\(/en/solutions/management-software/super-](#)

[diagnostics-offline\)](#), [KVM with dedicated LAN](#)

[\(/manuals/other/BMC_IPMI_X13_H13.pdf#page=112\)](#),

[IPMI 2.0 \(/solutions/IPMI.cfm\)](#).

System Management Software

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

Power Configurations

Power-on mode for AC power recovery, ACPI Power Management

Security

Hardware

Trusted Platform Module (TPM) 2.0

PC Health Monitoring

Voltage

VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 4 -fan status, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

LED

UID/Remote UID

CPU / System Overheat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

Thermal Monitor 2 (TM2) support

PECI

FAN

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

Thermal control tachometer fan connectors

Fan speed control

4 fans with tachometer monitoring

Overheat LED indication

Other Features

WOL, UID, M.2 NGFF connector, Dual Cooling Zones, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management

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

Standard Parts (Bulk Package)

I/O Cables

Part Number CBL-0044L • [eStore](#)
(<https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html>).

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N • [eStore](#)
(<https://store.supermicro.com/mcp-260-00042-0n.html>).

Qty 1

Description -

Standard Parts (Retail Package)

I/O Cables

Part Number CBL-0044L • [eStore](#)
(<https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html>).

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N • [eStore](#)
(<https://store.supermicro.com/mcp-260-00042-0n.html>).

Qty 1

Description -

QRG

Part Number MNL-2368-QRG

Qty 1

Description -

Global SKU (/en/products/SMC_global_skus)
