

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 rear; 2 via header)

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)

DOM2 SATA DOM (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, Supermicro Server Manager (SSM), Supermicro Update Manager (SUM), SuperDoctor® 5, Super Diagnostics Offline, KVM with dedicated LAN, IPMI 2.0**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 CablesPart Number CBL-0044L • [eStore](#)

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N •

[eStore](#)

Qty 1

Description -

Standard Parts (Retail Package)

I/O CablesPart Number CBL-0044L • [eStore](#)

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N •

[eStore](#)

Qty 1

Description -

QRG

Part Number MNL-2368-QRG

Qty 1

Description -