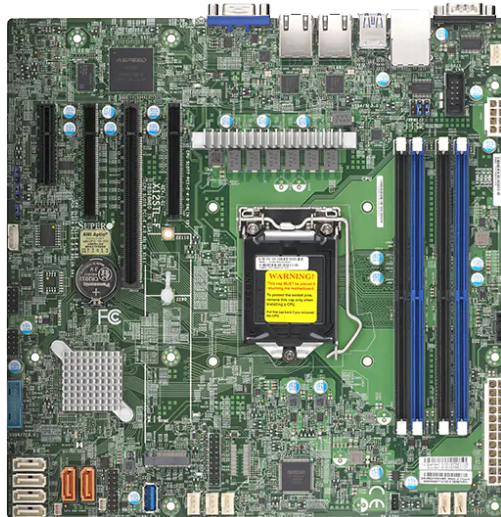


X12STL-F



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 128GB Unbuffered ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots

1 PCIe 4.0 x8,

1 PCIe 4.0 x8 (in x16 slot),

1 PCIe 4.0 x4 (in x8 slot) 1 PCIe 3.0 x2 (in x4 slot)

M.2 Interface: 1 PCIe 3.0 x4

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

Dual LAN with 1GbE with Intel® I210

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

5x USB 3.2 Gen1 (2 rear, 1 Type-A, 2 via header), 4x USB 2.0 (2 rear, 2 via headers)

Optimized Servers

[SYS-510T-ML](#)

[SYS-530T-I](#)

Specifications

Product SKUs**MBD-X12STL-F****Physical Stats****Form Factor**

microATX

Dimension

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

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**

4 DIMM slots

Up to 128GB 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 1GbE with Intel® I210

Input / Output**SATA**

6 SATA3 (6Gbps) port(s)

LAN

2 1GbE LAN ports

USB

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

5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

2 COM Port(s) (1 header; 1 rear)

DOM

2 SuperDOM (Disk on Module) power connector

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 4.0 x8 (in x16 slot),

1 PCIe 4.0 x8,

1 PCIe 4.0 x4 (in x8 slot),

1 PCIe 3.0 x2 (in x4 slot)

M.2

M.2 Interface: 1 PCIe 3.0 x4

Form Factor: 2280/22110

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, 6 - fan status, 3.3V standby, +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

LED

UID/Remote UID

BMC/IPMI Heartbeat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

Thermal Monitor 2 (TM2) support

PECI

FAN

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

Thermal control tachometer fan connectors

Fan speed control

6 fans with tachometer status 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](#)

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N •
[eStore](#)

Qty 1

Description -

Standard Parts (Retail Package)

I/O Cables

Part Number CBL-0044L • [eStore](#)

Qty 2

Description -

I/O Shield

Part Number MCP-260-00042-0N •
[eStore](#)

Qty 1

Description -

QRG

Part Number MNL-2353-QRG

Qty 1

Description -
