

X12STD-F



Key Features

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

Intel® C256.

Up to 128GB ECC/non-ECC Unbuffered DIMM, DDR4-3200MHz, in 4 DIMM slots.

1 PCIe 4.0 x8 (Micro Low Profile)

1 PCIe 4.0 x8 (Low Profile).

M.2 Interface: 2 SATA/PCIe 3.0 x4, **M.2 Form Factor:** 2280/22110.

1 VGA Port; 2 USB 2.0 Ports; 1 Serial Port via KVM Connector.

Intel® C256 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1,5,10.

1 LAN port; Realtek RTL8211FS PHY for dedicated IPMI.

Optimized Servers

[SYS-530MT-H8TNR](#)

Specifications

Product SKUs

MBD-X12STD-F

Physical Stats

Form Factor

Proprietary

Dimension

4.75" x 15.69" (12.07cm x 39.85cm)

Processor

CPU

Intel® Pentium®, Intel® Xeon® E-2300 Processor

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

System Memory

Memory Capacity

4 DIMM slots

Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-3200MHz

Memory Type

3200/2933/2666 MT/s

DIMM Sizes

4GB, 8GB, 16GB, 32GB

Memory Voltage

1.2V

Error Detection

Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

Intel® C256

SATA

Intel® C256 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Network Controllers

Single LAN with ASPEED AST2600 BMC

Input / Output

SATA

2 SATA3 port(s)

USB

3 USB port(s) (2 type A Via KVM connector; 1 type C)

Video Output

1 VGA port(s) Via KVM connector

Serial Port

1 COM Port(s) (1 Serial Port Via KVM connector)

TPM

1 TPM Header & Chip both

Expansion Slots

PCIe

1 PCIe 4.0 x8 (Low Profile),

1 PCIe 4.0 x8 (Micro Low Profile)

M.2

M.2 Interface: 2 SATA/PCIe 3.0 x4

Form Factor: 2280/22110

Key: M-Key

System BIOS

BIOS Type

256MB SPI Flash with AMI BIOS

BIOS Features

ACPI 6.0 or later

Plug and Play (PnP)

BIOS rescue hot keys

SMBIOS 3.0 or later

Management

Software

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

[Supermicro Update Manager \(SUM\)](#), [SuperDoctor® 5](#),

[Super Diagnostics Offline](#), [KVM with dedicated LAN](#),

[IPMI 2.0](#)

Power Configurations

Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism, Wake-on-LAN

Security

Hardware

Trusted Platform Module (TPM) 2.0

PC Health Monitoring

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

CPU / System Overheat LED

FAN

Low noise fan speed control

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