# X12STE-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 VLP DIMM, DDR4-3200MHz, in 4 DIMM slots.

1 PCIe 4.0 x8 (Micro Low Profile)

1 PCIe 4.0 x8 for Add-On-Module (AOM).

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

1 LAN port;Realtek RTL8211FS PHY for dedicated IPMI.

**M.2 Interface:** 1 SATA/PCIe 3.0 x4,**M.2 Form Factor:** 2280/22110.

Intel® C256 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10.

## Optimized Servers

SYS-530MT-H12TRF

## Specifications

**Product SKUs**
**MBD-X12STE-F**

**Physical Stats**
**Form Factor**
Proprietary
**Dimension**
4.6" x 13.09" (11.7cm x 33.24cm)

**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 VLPDIMM, 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 7 SATA3 (6 Gbps) ports; RAID 0,1,5,10
**IPMI**
ASPEED AST2600 BMC
**Network Controllers**
Single LAN with ASPEED AST2600 BMC

**Input / Output**
**SATA**
6 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)
**DOM**
1 SATA DOM (Disk on Module) power connector support
**TPM**
1 TPM Header

**Expansion Slots**
**PCIe**
1 PCIe 4.0 x8 (Micro Low Profile),
1 PCIe 4.0 x8 for Add-On-Module (AOM)
**M.2**
M.2 Interface: 1 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