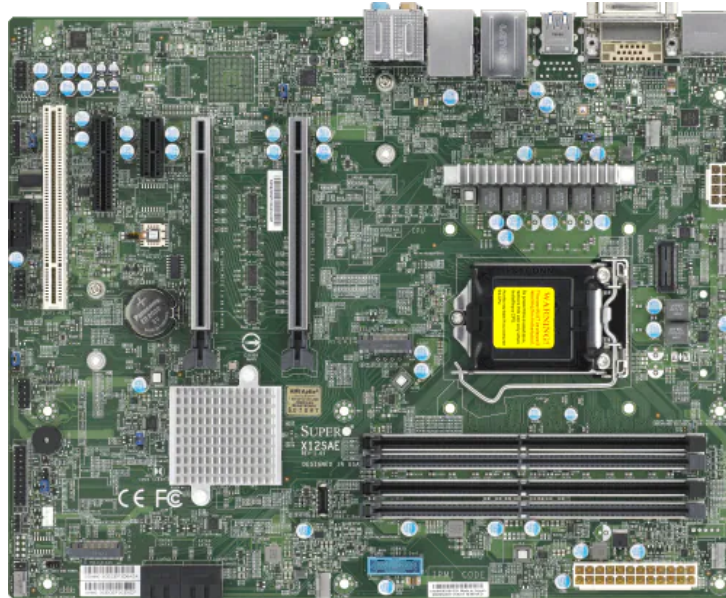


X12SAE



Workstation

Key Features

10th Gen Intel® Core i9/Core™ i7/Core™ i5/Core™ i3/Pentium® Processor, Intel® Xeon® W-1200 Processors

Single Socket LGA-1200 (Socket H5) supported, Up to 125W TDP

Intel® W480

Single LAN with Intel® PHY I219LM LAN controller

for AMT/vPro

Single LAN with Intel® Ethernet i225V

128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots

1 PCIe 3.0 x4,

2 PCIe 3.0 x16 slots (16/NA or 8/8),

1 PCIe 3.0 x1

1 - 5V PCI 32bit

M.2 Interface: 2 PCIe 3.0 x4, RAID 0 & 1

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

Intel® W480 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 DP (DisplayPort) port, 1 HDMI port, 1 DVI - D port

Specifications

Product SKUs**MBD-X12SAE****Physical Stats****Form Factor**

ATX

Dimension

12" x 9.6" (30.48cm x 24.38cm)

Processor**CPU**

Intel® Xeon® W-1200 Processors, 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor
Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports
Up to 125W TDP

Core

Up to 10 cores

System Memory**Memory Capacity**

4 DIMM slots

128GB Unbuffered ECC/non-ECC UDIMM, DDR4-2933MHz

Memory Type

Up to 128GB of ered memory with speeds of up to 2933MHz (2DPC)

DIMM Sizes

2GB, 4GB, 8GB, 16GB, 32GB

Memory Voltage

1.2V

On-Board Devices**Chipset**

Intel® W480/ W480E

SATA

Intel® W480/ W480E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Audio

ALC 888S HD Audio

Network Controllers

Single LAN with Intel® Ethernet i225V

Single LAN with Intel® PHY I219LM LAN controller, for AMT/vPro

Input / Output**LAN**

1 RJ45 Gigabit Ethernet LAN ports

1 RJ45 2.5 Gigabit Ethernet LAN port

USB

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

5 USB 3.2 Gen2 port(s) (3 rear type A; 1 rear type C; 1 via header)

2 USB 2.0 port(s) (2 via header)

Video Output

1 DP (DisplayPort) port(s), 1 HDMI port(s), 1 DVI - D port(s)

Serial Port

1 COM Port(s) (1 header)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 3.0 x4,

2 PCIe 3.0 x16 slots (16/NA or 8/8),

1 PCIe 3.0 x1

M.2

M.2 Interface: 2 PCIe 3.0 x4, RAID 0 & 1

Form Factor: 2280/22110

Key: M-Key

System BIOS**BIOS Type**

256MB SPI Flash with AMI BIOS

BIOS Features

ACPI 6.0

Plug and Play (PnP)

BIOS rescue hot keys

Riser card auto-detection support

SMBIOS 3.0 or later

Management**System Management Software**

SuperDoctor 5

Power Configurations

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

Security**Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

VBAT, System temperature, PCH temperature, Memory temperature,
CPU temperature, 3.3V standby, 1.05 (PCH), +5V standby, +5V, +3.3V,
+12V, VRM temperature, LAN temperature, CPU thermal trip support,
+1.8V PCH, +1.0V PCH

LED

Power LED

BMC/IPMI Heartbeat LED

Catastrophic Error LED

FAN

5x 4-pin fan headers (up to 5 fans)

Fan speed control

Overheat LED indication

Other Features

WOL, RoHS, CPU thermal trip support for processor protection,
Control of power-on for recovery from AC power loss, Chassis
intrusion detection, ATX Power connector, ACPI power management,
8-pin 12v DC power connector

Operating Environment**Operating Temperature Range**

0°C - 50°C (32°F - 122°F)

Parts List

Standard Parts (Bulk Package)

I/O Shield

Part Number MCP-260-00151-0N

Qty 1

Description IO shield

SATA Cables

Part Number CBL-0044L • [eStore](#)

Qty 2

Description SATA Cables

Standard Parts (Retail Package)**I/O Shield**

Part Number MCP-260-00151-0N

Qty 1

Description IO shield

Quick Reference Guide

Part Number MNL-2263-QRG

Qty 1

Description Quick Reference Guide

SATA Cables

Part Number CBL-0044L • [eStore](#)

Qty 4

Description SATA Cables

Optional Parts**4U CPU Heat Sink for Socket H(optional, not included)**

Part Number SNK-P0051AP4 • [eStore](#)

Qty 1

Description 4U Active CPU Heat Sink

Closed Loop Liquid Cooling Module (optional, not included)

Part Number SNK-P3002A

Qty 1

Description Closed Loop Liquid Cooling Module (required chassis which has suitable design to mount this liquid cooling module).

TPM security module (optional, not included)

Part Number AOM-TPM-9670V

Qty 1

Description TPM for X12SAE
