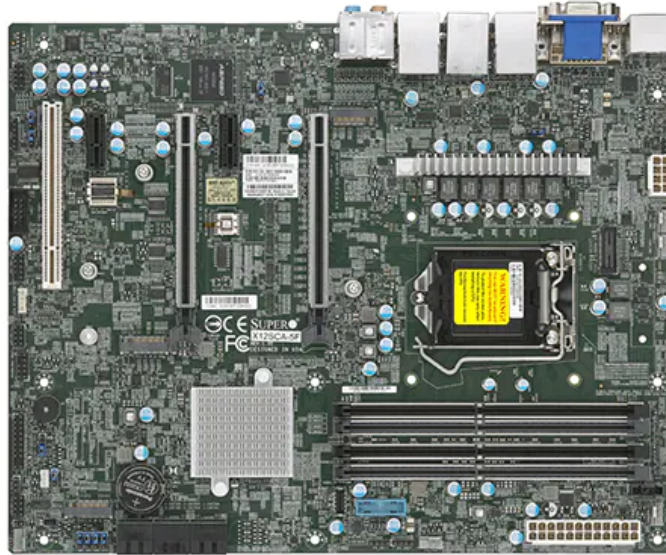


X12SCA-5F



Workstation

Key Features

10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor, 11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1200 Processors, Intel® Xeon® W-1300 Processors

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

Intel® W580

Single LAN with Intel® Ethernet i225LM

Single LAN with Intel® PHY I219LM LAN controller

for AMT/vPro

Single LAN with RTL8211

Dedicated LAN for IPMI

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

2 PCIe 4.0 x16 (16/NA or 8/8), 2 PCIe 3.0 x1

1 PCI 5V 32bit

M.2 Interface: 1 PCIe 4.0 x4, 2 PCIe 3.0 x4 (RAID 0, 1)

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

RAID 5 only applied for INTEL Storage Device, M.2-M3 is limited with 10th Gen CPU and W-1200 CPU

Intel® W580 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 DP 1.4a port, 1 HDMI 2.0b port, 1 DVI - D port, 1 VGA port

Specifications

Product SKUs**MBD-X12SCA-5F****Physical Stats****Form Factor**

ATX

Dimension

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

Processor**CPU**

11th Generation Intel® Core™ i5/i7/i9 Processors, Intel® Xeon® W-1200 Processors, Intel® Xeon® W-1300 Processors, 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 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, DDR4-3200MHz

Memory Type

128GB 3200MHz

DIMM Sizes

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

Memory Voltage

1.2V

On-Board Devices**Chipset**

Intel® W580

SATA

Intel® W580 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2500 BMC

Audio

ALC 888S HD Audio

Network Controllers

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

Single LAN with Intel® Ethernet i225LM

Single LAN with Realtek RTL8211F PHY (dedicated IPMI), Dedicated LAN for IPMI

Input / Output**LAN**

1 RJ45 Dedicated IPMI LAN port

1 RJ45 Gigabit Ethernet LAN ports

1 RJ45 2.5 Gigabit Ethernet LAN port

USB

4 USB 3.2 Gen2 port(s) (4 rear type A)

2 USB 3.2 Gen1 port(s) (2 via header)

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

2 USB 3.2 Gen2x2 port(s) (1 rear type C; 1 via header)

Video Output

1 VGA port(s), 1 DVI - D port(s), 1 DP 1.4a port(s), 1 HDMI 2.0b port(s)

Serial Port

1 COM Port(s) (1 header)

TPM

1 TPM Header

Expansion Slots**PCIe**

2 PCIe 3.0 x1,

2 PCIe 4.0 x16 slots (16/NA or 8/8),

1 PCI PCI 5V 32bit

M.2

M.2 Interface: 1 PCIe 4.0 x4, RAID 0 & 1; 2 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

Plug and Play (PnP)

BIOS rescue hot keys

Riser card auto-detection support

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](#)**System Management Software**

SuperDoctor 5

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**Voltage**

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

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)

Non-Operating Temperature Range

-20°C - 60°C (-4°F - 140°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-2358-QRG
Qty 1
Description Quick Reference Guide

SATA Cables

Part Number CBL-0044L • [eStore](#)
Qty 4
Description SATA Cables

Optional Parts**TPM security module (optional, not included)**

Part Number	AOM-TPM-9670V	AOM-TPM-9670V
Qty	1	1
Description	TPM for Intel Core CPU	TPM for Intel Xeon CPU
