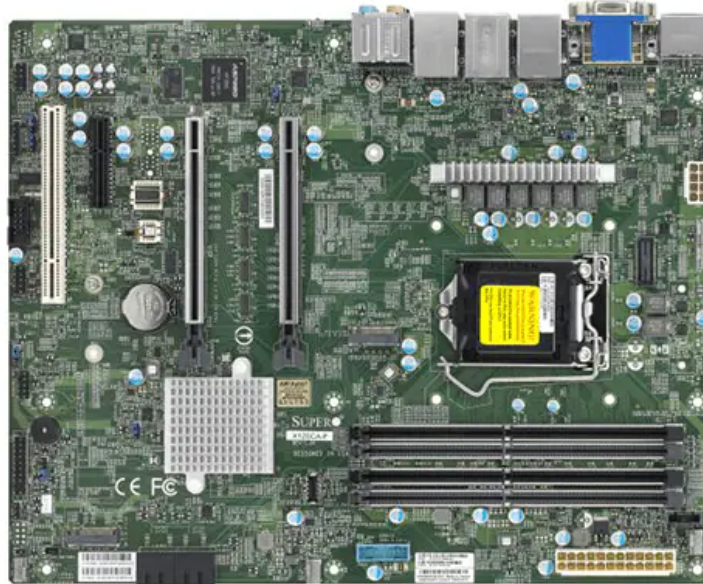


# X12SCA-F

---



## Workstation IPMI

### Key Features

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

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

Intel® W480

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

Single LAN with Intel® Ethernet i225LM

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 - 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, 1 VGA port,  
VGA port is dedicated for IPMI

# Specifications

## Product SKUs

**MBD-X12SCA-F**

## 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

### IPMI

ASPEED AST2500

### Audio

ALC 888S HD Audio

### Graphics

VGA port is dedicated for IPMI

## Network Controllers

Single LAN with Intel® Ethernet i225LM

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

## 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 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 VGA port(s), 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)

### 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

### 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, IPMI (Intelligent Platform Management Interface) v1.5  
/ 2.0 with KVM support, \*\*\* OOB Bios refresh is not supported on  
X12SCA-F

### 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

UID/Remote UID

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, UID, 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

---