



## Workstation IPMI

### Key Features

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

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

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Intel® W480

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Single LAN with Intel® PHY I219LMLAN controller for AMT/vPro

Single LAN with Intel® Ethernet i225LM

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

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1 PCI-E 3.0 x4,  
2 PCI-E 3.0 x16 slots (16/NA or 8/8)

1 - 5V PCI 32bit

**M.2 Interface:** 2 PCI-E 3.0 x4, RAID 0 & 1

**M.2 Form Factor:** 2280/22110

**M.2 Key:** M-Key

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

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1 DP (DisplayPort) port, 1 HDMI port, 1 DVI - D port, 1 VGA port, VGA port is dedicated for IPMI

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## Product SKUs

- MBD-X12SCA-F ■ 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 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
- **SATA** ■ Intel® W480 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

- **PCI-E** ■ 1 PCI-E 3.0 x4,
- 2 PCI-E 3.0 x16 slots (16/NA or 8/8)
- 1 - 5V PCI 32bit
- **M.2** ■ M.2 Interface: 2 PCI-E 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** ■ SuperDoctor® 5, SUM, SSM, AMT, vPro, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support
- **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

## 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)