



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 i225V
- Single LAN with Intel® PHY I219LM LAN controller
- for AMT/vPro
- 2 PCIe 4.0 x16 slots (16/NA or 8/8) 2 PCIe 3.0 x1
- 1 - 5V PCI 32bit
- M.2 Interface:** 1 PCIe 4.0 x4 and 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
- 128GB Unbuffered ECC/non-ECC UDIMM, DDR4-3200MHz, in 4 DIMM slots
- 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

Specifications

Product SKUs MBD-X12SAE-5
Physical Stats Form Factor ATX
Dimension 12" x 9.6" (30.48cm x 24.38cm)
Processor CPU 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3 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
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
Audio 1x ALC 888S HD Audio port(s) ALC 888S HD Audio
Network Controllers Single LAN with Intel® PHY I219LM LAN controller Single LAN with Intel® Ethernet i225V
Input / Output LAN 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 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 4.0 x16 slots (16/NA or 8/8), 2 PCIe 3.0 x1 1 - 5V PCI 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 SuperDoctor® 5, AMT, vPro, Watchdog System Management Software SuperDoctor 5
Power Configurations Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism, Wake-on-LAN
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 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