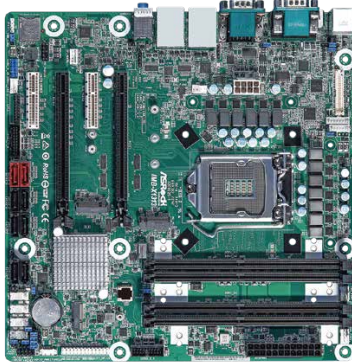




IMB-X1313

Micro-ATX Motherboard



KEY FEATURES

- Intel® Xeon® W-1200 series & Intel® 10th Gen (Comet lake-S) Core™ Processors with W480E chipset
- 4 x 288-pin Long-DIMM, Support Dual Channel DDR4 2933 (i9/i7 CPU) / 2666 (i5/i3 CPU) / 2400 (Pentium/ Celeron CPU), up to 128GB
- Support ECC Long DIMM memory modules
- 1 x PCIe x16 Gen3, 1 x PCIe x8 Gen3, 2 x PCIe x4 Gen3
4 x USB 3.2 Gen2, 4 x USB 3.2 Gen1, 4 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 1 x M.2 Key B, 6 x COM, 8 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Intel 2.5 Gigabit LAN
- Support Triple display, 1 x DP1.2, 1 x VGA, 1 x LVDS (eDP1.4 optional), 1 x HDMI 2.0a
- TPM 2.0 onboard
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX-PWR (24+8-pin)

SPECIFICATIONS

Form Factor

Dimensions	Micro ATX (9.6-in x 9.6-in)
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Processor System

CPU	Intel® 10 th Gen (Cometlake-S) Core™ Processors, up to 125 W
Chipset	Intel® W480E
Socket	LGA1200
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR4 2933/2666/2400 MHz, (ECC memory supported by CPU) - Intel Core i9/i7 CPUs support DDR4 up to 2933 MHz - Intel Core i5/i3 CPUs support DDR4 up to 2666 MHz - Intel Pentium/Celeron CPU support DDR4 up to 2400 MHz
Capacity	128GB (32GB per DIMM)
Socket	4 x 288-pin Long-DIMM

Graphics

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2, DP++ Max resolution up to 4096x2160@60Hz
VGA	Max resolution up to 1920x1200@60Hz
LVDS	Dual channel 24 bit up to 1920 x 1200@60Hz
eDP	eDP 1.4 Max resolution up to 4096x2304@60Hz
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot

PCIe	2 x PCIe Gen3 Slots (PCIe1/PCIe3: single at x16 (PCIe1); dual at x8 (PCIe1) / x8 (PCIe3)) (PCIe1: Support riser card x8/x8, x8/x4/x4) 2 x PCIe x4 (Gen3)
PCI	N/A
Mini-PCIe	N/A
M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe x1/USB 3.2 Gen1/USB2.0 and SIM for 4G/5G
SIM Socket	1x SIM socket connected to M.2 key B

Audio

Interface	Realtek ALC887/ALC897 HD, High Definition Audio. Line-In/ Line-Out/ Mic-In
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Ethernet

Controller/ Speed	LAN1: Intel® I225LM with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, support AMT/vPro
Connector	2 x RJ-45

Rear I/O

HDMI	1 x HDMI 2.0a
DisplayPort	1 x DP 1.2
VGA	1
DVI	N/A
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	4 x USB 3.2 (Gen2), 2 x USB2.0
Audio	3 (Line-In, Line-Out, Mic-In)
COM	2 x COM (RS-232/422/485)
PS2	1

Internal Connector

USB	4 x USB 3.2 Gen1 (2 x USB 3.2 Gen1 header) 2 x USB 2.0 (1x2.54 pitch header)
COM	4 x COM (RS-232)
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO, (shared with LPT header)
TPM	TPM 2.0 onboard
LVDS	1
eDP	1 (BOM Option support)
VGA	N/A
SATA PWR Output	N/A
Speaker Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5/ SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available
mSATA	N/A
SATA	8 x SATA3 (6Gb/s) *Only SATA3_1 ~ SATA3_6 Ports support RAID function
RAID	Intel® SATA RAID 0/1/5/10
eMMC	N/A

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	ATX PWR (24+8-pin)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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