



IMB-1222/ IMB-1222-WV

Mini-ITX Motherboard



KEY FEATURES

- Intel® 10th Gen (Comet lake-S) Core™ Processors with Q470E chipset
- 2 x 260-pin SO-DIMM Support Dual Channel DDR4 2933 (i9/i7 CPU) / 2666 (i5/i3 CPU) / 2400 (Pentium/ Celeron CPU), up to 64GB
- 1 x PCIe x16 Gen3, 6 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, 4 x COM, 2 x SATA3
- 1 x Intel 2.5 Gigabit LAN, 1 x Intel 1 Gigabit LAN
- Support Triple display, 2 x DP1.2, 1 x LVDS or eDP, 1 x HDMI 2.0a
- TPM 2.0 onboard
- Special Feature: Supports Intel® vPro, AMT, RAID 0/1/5/10
- 12V (IMB-1222)
- 12V~28V DC in (IMB-1222-WV)

SPECIFICATIONS

Form Factor	IMB-1222	IMB-1222-WV
Dimensions(LxWxH)	Mini-ITX (6.7-in x 6.7-inx 1.0-in)	

Processor System

CPU	Intel® 10 th Gen (Cometlake-S) Core™ Processors, up to 80W <small>*The performance of CPUs over 80W will be limited due to power design.</small>
Chipset	Intel® Q470E
Socket	LGA1200
BIOS	AMI SPI 256 Mbit

Memory

Technology	Dual Channel DDR4 2933/2666/2400 MHz - 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	64GB (32 GB per DIMM)
Socket	2 x 260-pin SO-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	N/A
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	1 x PCIe x16 (Gen3, Support riser card x8/x8, x8/x4/x4)
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	N/A (BOM option support) 1x SIM socket connected to M.2 key B

Audio

Interface	Realtek ALC887/ALC897 HD, High Definition Audio. 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	IMB-1222	IMB-1222-WV
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HDMI	1 x HDMI 2.0a	
DisplayPort	2 x DP1.2	
VGA	N/A	
DVI	N/A	
Ethernet	1 x 1 Gigabit LAN 1 x 2.5 Gigabit LAN	
USB	4 x USB 3.2 (Gen1)	
Audio	2 (Mic-in, Line-out)	
COM	N/A	
PS2	N/A	

Internal Connector

USB	2 x USB 3.2 Gen1 (1 x USB 3.2 Gen1 header) 4 x USB 2.0 (2 x 2.54 pitch header)
COM	COM1,2 (RS-232/422/485), COM3,4 (RS-232 only)
Parallel	N/A
GPIO	4 x GPI, 4 x GPO
TPM	TPM 2.0 onboard
LVDS	1, switch by BIOS default LVDS
eDP	1, switch by BIOS default LVDS
VGA	N/A
SATA PWR Output	1
Thunderbolt header	1
Speaker Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe4 or SATA3
mSATA	N/A
SATA	2 x SATA3 (6Gb/s)
RAID	Intel® SATA RAID 0/1/5/10
eMMC	N/A

Watchdog Timer

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

Input PWR	12V 12V~28V DC in with 4 pin plug PWR cable or DC Jack(Screw type)
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%

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