



IMB-1220-L/ IMB-1220-D

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, 5 x COM, 4 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, 1 x HDMI 2.0a (IMB-1220-L)
- Support Triple display, 2 x DP1.2, 1 x eDP, 1 x HDMI 2.0a (IMB-1220-D)
- TPM 2.0 onboard
- Special Feature: Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX-PWR (24+4-pin)



IMB-1220-L

IMB-1220-D

SPECIFICATIONS

Form Factor	IMB-1220-L	IMB-1220-D
Dimensions(LxWxH)	Mini-ITX (6.7-in x 6.7-in x 1.5-in)	
Processor System		
CPU	Intel® 10 th Gen (Cometlake-S) Core™ Processors, up to 80W *The performance of CPUs over 80W will be limited due to power design.	
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	Max resolution up to 1920x1200@60Hz	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz	N/A
eDP	N/A	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) with PCIe x1/USB 3.2 Gen1/USB2.0 and SIM for 4G/5G	
SIM Socket	1 x SIM socket connected to M.2 key B	
Audio		
Interface	Realtek ALC887/897, High Definition Audio. Line-out/Mic-in	
Ethernet		
Controller/ Speed	LAN1: Intel® I225LM with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps , support AMT	
Connector	2 x RJ-45	

Rear I/O	IMB-1220-L	IMB-1220-D
HDMI	1 x HDMI 2.0a	
DisplayPort	1 x DP 1.2	2 x DP 1.2
VGA	1	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	2 x COM(RS-232/422/485)	
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	3 x COM (RS-232)	
Parallel	N/A	
GPIO	4 x GPI, 4 x GPO	
TPM	TPM 2.0 onboard	
LVDS	1	N/A
eDP	N/A	1
VGA	N/A	
SATA PWR Output	1	
Speaker Header	1	
Storage		
M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe x4 or SATA3	
mSATA	N/A	
SATA	4 x SATA3 (6Gb/s)	
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 4pin+24 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%

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