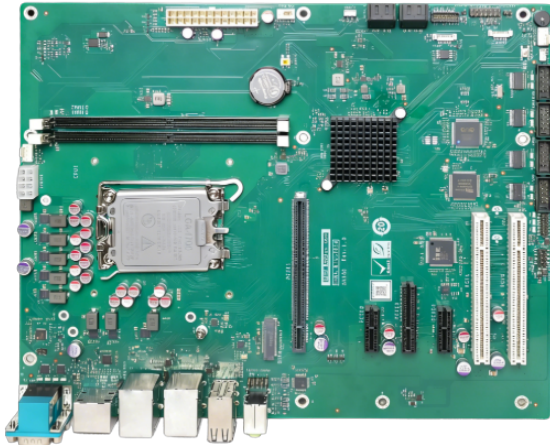


# IMBA-BTL-H610

ATX motherboard supports LGA1700 socket supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S)



## Features

- » LGA1700 socket supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S) up to 65W TDP
- » Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 96GB
- » Triple independent display via HDMI™, DP and iDPM
- » Support Dual Intel® I226V/I219 LM 2.5GbE controller
- » Support PCIe Gen4 x1, PCIe Gen4 x4, PCIe Gen4 x16 and PCI expansion

## Specifications

Form Factor	
Form Factor	ATX
System	
CPU	LGA1700 socket supports 12th/13th/14th generation Alder Lake-S/Raptor Lake-S/Bartlett Lake Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor (up to 65W TDP CPU)
Chipset	Intel® H610/H610E
Memory	Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 96GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	244mm x 305mm
Net Weight	GW: 1200g / NW: 700g
Storage	
Storage	4 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x Display Port : 1.4 (up to 4K@60Hz) 1 x HDMI™ : 1.4 (up to 4K@30Hz) 1 x iDPM : 3040 slot (only for IEI eDP/LVDS/VGA module)
Ethernet	2 x LAN - LAN1: Intel® I219LM controller LAN2: Intel® I226V 2.5GbE controller
Audio	1 x HD Audio : Realtek ALC888S HD codec 2 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External RS-232/422/485 : RS-485 support AFC 4 x External USB 2.0 : Type-A 2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s

	2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	4 x Internal RS-232 : 2x5 pin, P=2.54
	2 x Internal USB 2.0 : 2x4 pin, P=2.00
Expansion	2 x PCI Slot
	2 x PCIe x1 : Gen3 x 1
	1 x PCIe x16 : Gen4 x 16
	1 x PCIe x4 : Gen3 x 4 open-end
<b>Power</b>	
Power Consumption	TBD
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
<b>Environment</b>	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing

## Ordering Information

IMBA-BTL-H610-R10	ATX motherboard supports LGA1700 12/13/14th Intel® Core™ i9/i7/i5/i3, Celeron® and Pentium® processor & Intel Core (Series 2)(Bartlett Lake S), DDR5, Triple displays, dual LAN, M.2, USB 3.2, SATA 6Gb/s and RoHS
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## Packing List

1 x IMBA-BTL-H610 single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG