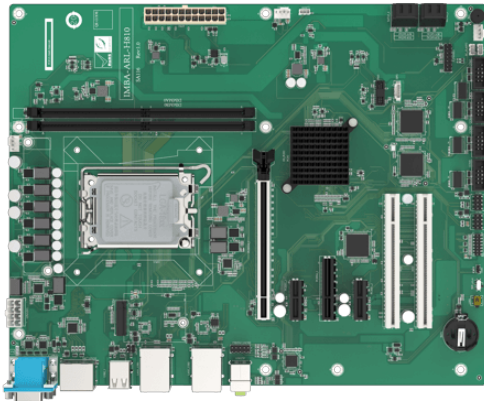


# IMBA-ARL-H810

ATX motherboard supports LGA1851 High-Performance Intel® Core™ Ultra Processors (Series 2), DDR5, Triple independent displays, dual LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## Features

- » High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)
- » Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM(CUDIMM support 6400MHz) 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 Gen5 x16 and PCI expansion

## Specifications

Form Factor	
Form Factor	ATX
System	
CPU	High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)
Chipset	Intel® H810
Memory	Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM(CUDIMM support 6400MHz) 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 : 4 x SATA 6Gb/s
I/O Interface	
Display Output	1 x HDMI™ 2.0 (up to 4K@60Hz) 2 x Display Port 1.4 (up to 4K@60Hz) 1 x iDPM 3040 slot (only for IEI eDP/LVDS/VGA module)
Ethernet	2 x LAN - LAN1: Intel® I219 LM controller LAN2: Intel® I226V 2.5GbE controller
Audio	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	2 x External RS-232/422/485 : RS-485 support AFC 4 x Internal RS-232 : 2x5 pin, P=2.54 2 x External USB 2.0 : Type-A 2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s 4 x Internal USB 2.0 : 2x4 pin, P=2.00 1 x DIO : 12-bit digital I/O (2x7 pin)

	2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	1 x I <sup>2</sup> C : 1x4 pin
Expansion	1 x PCIe x16 : with Signal Gen5
	1 x PCIe x4 : open-end Gen4
	2 x PCIe x1 : Gen4 x1
	2 x PCI Slot
<b>Power</b>	
Power Consumption	3.3V@0.64A, 5V@3.63A, 12V@6.49A, 5Vsb@0.53A (Intel Ultra 9 285T with DDR5 4800MHz 32GB memory)
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
<b>Certifications</b>	
Safety & EMC	CE/FCC compliant
<b>Watchdog Timer</b>	
Watchdog Timer	Software Programmable support 1~255 sec. System reset

## Ordering Information

IMBA-ARL-H810-R10	ATX motherboard supports LGA1851 Intel® 15th Generation Ultra™ processor, DDR5, Triple independent displays, dual LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
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## Packing List

1 x IMBA-ARL-H810 single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG