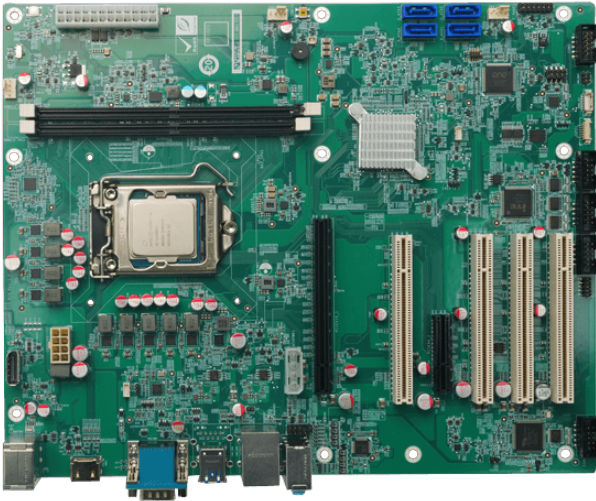


# IMBA-H420

ATX motherboard supports 14nm LGA1200 Intel® 10th/11th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, Triple displays, 2.5GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## Features

1. LGA1200 Intel® 10th/11th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
2. Dual-channel DDR4 2933MHz
3. Support HDMI, DP, VGA display output
4. Support 1x PCIe x16 , 1x PCIe x4 and 4 x PCI expansion slots

## Specifications

Form Factor	
Form Factor	ATX Motherboard
System	
CPU	LGA1200 Intel® 10/11th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
Chipset	Intel® H420E
Memory	Two 288-pin 2933 MHz Dual-Channel DDR4 SDRAM Unbuffered DIMMs supported up to 64GB
Memory Max.	up to 64GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin) 2 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	244mm x 305mm
Net Weight	700g
Storage	
Storage	4 x SATA : 6Gb/s (no RAID)
I/O Interface	
Display Output	1 x VGA : up to 1920 x 1200@60Hz 1 x HDMI : up to 4096 x 2160@30Hz 1 x DP++ : up to 4096 x 2304@60Hz
Ethernet	1 x LAN : LAN1: Intel® I225V 2.5GbE controller
Audio	1 x Line in 1 x Line out 1 x Mic 1 x Front Audio : 2x5 pin 1 x HD Audio : Realtek ALC888S HD codec
I/O Interface	1 x External RS-232 External RS-232/422/485 : RS-485 support AFC 4 x Internal RS-232 : 2x5 pin, P=2.54 1 x Internal RS-232/422/485 : 2x5 pin, P=2.54 2 x External USB 2.0 : Type-A

	4 x External USB 3.2 Gen1x1 : 5Gb/s(Type-A)
	2 x Internal USB 2.0 : 2x4 pin, P=2.54
	1 x PS/2
	1 x DIO : 8-bit digital I/O (2x5 pin)
Expansion	1 x PCIe x16
	1 x PCIe x4
	4 x PCI Slot
<b>Other Features</b>	
TPM	Intel® PTT(TPM 2.0)
<b>Power</b>	
Power Consumption	3.3V@0.84A, 5V@8.12A, 12V@3.77A, 5VSB@0A (Intel® Core™ i5-10500TE CPU with two 32 GB 2933 MHz DDR4 memory, EuP mode enabled)
Power Supply	ATX/AT power supply Support AT/ATX mode ErP/EuP Compliant
<b>Environment</b>	
Operating Temperature	0°C – 60°C
Storage Temperature	-30°C – 70°C
Humidity	5% ~ 95%, non-condensing
<b>Certifications</b>	
Safety & EMC	CE/FCC compliant

## Ordering Information

IMBA-H420-R10	ATX motherboard supports 14nm LGA1200 Intel® 10th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, Triple independent displays, 2.5GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
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## Packing List

1 x IMBA-H420 single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG