

IMB-H420

Micro-ATX motherboard supports LGA1200 Intel® 10th/11th Gen. Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple displays, dual 2.5GbE LAN, M.2, 6 USB 3.2, 8 USB 2.0, 10 COM, SATA 6Gb/s, HD Audio and RoHS



Features

- » LGA1200 Intel® 10th/11th Generation Core i9/i7/i5/i3, Pentium and Celeron processor (up to 65W)
- » Two 288-pin 2933 MHz unbuffered DDR4 SDRAM DIMM slots (system max. 64GB)
- » Support triple independent display via DVI,VGA and internal DP++
- » Support one PCIe x16 and one PCIe x1 expansions
- » Support one M.2 M key and four SATA for storage

Specifications

Form Factor	
Form Factor	ATX Motherboard
System	
CPU	LGA1200 socket supports 10th/11th generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processor. up to 65W TDP
Chipset	Intel® H420/H420E
Memory	Two 288-pin 2933 MHz unbuffered DDR4 SDRAM DIMM slots (supporting up to 64 GB memory)
Memory Max.	64GB
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 244mm
Net Weight	700g
Storage	
Storage	1 x M.2(NGFF) : 1 x M.2 M key 2242/2280 (PCIe Gen3 x2) 4 x SATA
I/O Interface	
Display Output	1 x DVI-D : up to 2560 x 1600@60Hz 1 x iDP : up to 3840 x 2160@60Hz 1 x VGA : up to 1920 x 1080@60Hz
Ethernet	2 x LAN - LAN1: Intel® I225-V GbE controller LAN2: Intel® I225-V GbE controller
Audio	1 x HD Audio : Realtek ALC888S HD Audio codec 3 x Audio jack (Line-in, Line-out, Mic-in) 1 x Analog audio (2x5 pin)
I/O Interface	6 x External USB 2.0 : Type A 8 x External USB 3.2 Gen1x1 : 5 Gb/s (Type A) 10 x Internal RS-232 - 2 x 2*20 pin, P=2.54 2 x 2*5 pin, P=2.54 1 x LPT : 2*13 pin

	1 x PS/2 : for KB/MS
Expansion	1 x M.2(NGFF) : M key 2242/2280 (PCIe Gen3 x2)
	1 x PCIe x1 : Gen3 x1 slot
	1 x PCIe x16 : Gen3 x16 slot
Power	
Power Consumption	3.3V@1.59A, 5V@10.18A, 12V@6.84A, 5VSB@0.23A
	(10th Gen. Intel® Core® i9-10900E 2.80 GHz 65W CPU with 32GB 2933MHz DDR4 memory, EUP enabled)
Power Supply	ATX/AT power supply
	Support AT/ATX mode
	ErP/EuP Compliant
Environment	
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C~70°C
Humidity	5% ~95%, non-condensing

Ordering Information

IMB-H420-R10	Micro-ATX motherboard supports LGA1200 Intel® 10th/11th Gen. Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple displays, dual 2.5GbE LAN, M.2, 6 USB 3.2, 8 USB 2.0, 10 COM, SATA 6Gb/s, HD Audio and RoHS
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Packing List

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