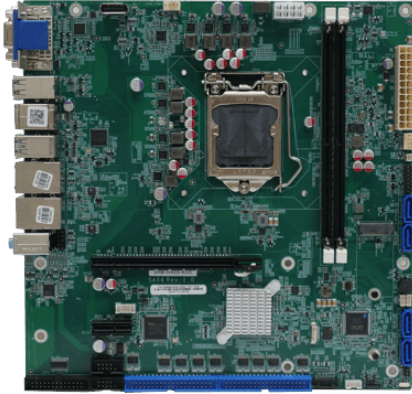


# IMB-H420

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                 | micro 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® 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)<br>1 x System fan connector (1x4 pin)                                                                                   |
| Physical Characteristics    |                                                                                                                                                         |
| Dimensions (LxWxH) (mm)     | 244mm x 244mm                                                                                                                                           |
| Net Weight                  | 700g                                                                                                                                                    |
| Storage                     |                                                                                                                                                         |
| Storage                     | 4 x SATA<br>1 x M.2(NGFF) : 1 x M.2 M key 2242/2280 (PCIe Gen3 x2)                                                                                      |
| I/O Interface               |                                                                                                                                                         |
| Display Output              | 1 x VGA : up to 1920 x 1080@60Hz<br>1 x DVI-D : up to 2560 x 1600@60Hz<br>1 x Display Port : internal, up to 3840 x 2160@60Hz                           |
| Ethernet                    | 2 x LAN -<br>LAN1: Intel® I225-V/I226-V GbE controller<br>LAN2: Intel® I225-V/I226-V GbE controller                                                     |
| Audio                       | 1 x HD Audio : Realtek ALC888S HD Audio codec<br>3 x Audio jack (Line-in, Line-out, Mic-in)<br>1 x Analog audio (2x5 pin)                               |
| I/O Interface               | 10 x Internal RS-232 -<br>2 x 2*20 pin, P=2.54<br>2 x 2*5 pin, P=2.54<br>6 x External USB 2.0 : Type A<br>8 x External USB 3.2 Gen1x1 : 5 Gb/s (Type A) |

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
|                       | 1 x PS/2 : for KB/MS                                                                           |
|                       | 1 x LPT : 2*13 pin                                                                             |
| Expansion             | 1 x PCIe x16 : Gen3 x16 slot                                                                   |
|                       | 1 x PCIe x1 : Gen3 x1 slot                                                                     |
|                       | 1 x M.2(NGFF) : M key 2242/2280 (PCIe Gen3 x2)                                                 |
| <b>Power</b>          |                                                                                                |
| 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                                                                              |
| <b>Environment</b>    |                                                                                                |
| 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 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Packing List

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