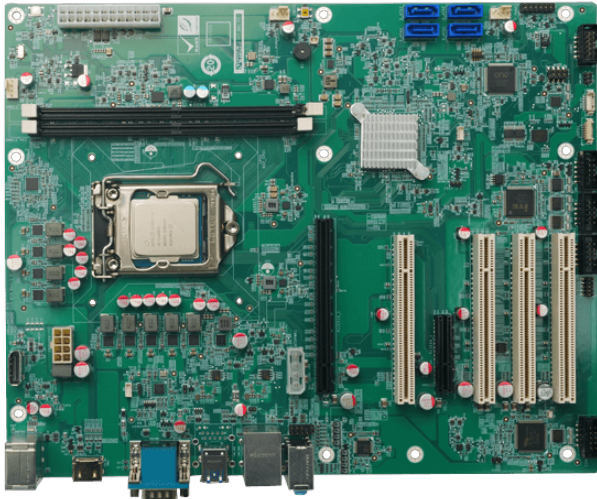


# IMBA-H420

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)<br>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<br>1 x HDMI : up to 4096 x 2160@30Hz<br>1 x DP++ : up to 4096 x 2304@60Hz   |
| Ethernet                    | 1 x LAN :<br>LAN1: Intel® I225V 2.5GbE controller  |
| Audio                       | 1 x Line in<br>1 x Line out<br>1 x Mic<br>1 x Front Audio : 2x5 pin<br>1 x HD Audio : Realtek ALC888S HD codec   |
| I/O Interface               | 1 x External RS-232<br>External RS-232/422/485 : RS-485 support AFC<br>4 x Internal RS-232 : 2x5 pin, P=2.54<br>1 x Internal RS-232/422/485 : 2x5 pin, P=2.54<br>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<br>(Intel® Core™ i5-10500TE CPU with two 32 GB 2933 MHz DDR4 memory, EuP mode enabled) |
| Power Supply          | ATX/AT power supply<br>Support AT/ATX mode<br>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 |
|---------------|--|

## Packing List

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