# IMB-MTL/IMB-ARL-U/H

micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H/15th Gen. Intel® mobile Arrow Lake-U/H on-board processor, DDR5, 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

## Features

» 14th Gen. Intel® mobile Meteor Lake-H/15th Gen. Intel® mobile Arrow Lake-U/H on-board processor

» Support two 262-pin 5600 MHz DDR5 SO-DIMM, system up to 96GB

» Support dual Intel® 2.5GbE controller

» Support PCIe Gen5 x8, PCIe Gen4 x4, M.2 M key and M.2 B key expansion

## Specifications

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|---|---|
| Form Factor | |
| Form Factor | Micro-ATX |
| System | |
| CPU | 14th Gen. Intel® mobile Meteor Lake-H/15th Gen. Intel® mobile Arrow Lake-U/H on-board processor |
| Memory | Two 262-pin 5600 MHz DDR5 SO-DIMM |
| Memory Max. | 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 244mm |
| Net Weight | GW: 1200g / NW: 700g |
| I/O Interface | |
| Display Output | 1 x HDMI™ : 1.4 (up to 4K @30Hz) |
| | 1 x DP++ : DP 1.4 (up to 4K @60Hz) |
| | 1 x iDPM : IEI iDPM 3040 slot |
| | 1 x USB4 : up to 4096 x 2160 @60Hz |
| Audio | HD Audio - Realtek ALC888S HD Audio codec |
| | 1 x Audio Jack (Line-out, Mic-in) |
| | 1 x Analog audio (2x5 pin) |
| I/O Interface | 4 x Internal RS-232 : 2x5 pin, P=2.0 |
| | 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0 |
| | 4 x External USB 2.0 : Type-A |
| | 2 x Internal USB 2.0 : 2x4 pin, P=2.54 |
| | 1 x DIO : 12-bit digital I/O (2x7 pin) |
| | 2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s |
| | 1 x I²C : 1x4 pin |
| Expansion | 1 x PCIe x8 : PCIe Gen5 x8 Slot |

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|---|---|
| | 3 x PCIe x4 : PCIe Gen4 x4 |
| | 2 x M.2(NGFF) -<br>1 x M.2 B key 3080 (for IRIS2-2600)<br>1 x M.2 M key 2280 (PCIe Gen4 x2) |
| Other Features | |
| TPM | 1 x TPM2.0 (2 x 10pin) |
| Power | |
| Power Consumption | 3.3V@1.19A, 5V@4.76A, 12V@5.76A, 5VSB@0.03A |
| | (Intel® Ultra 7 165H CPU with 32 GB 4800 MHz DDR5 memory) |
| Power Supply | ATX |
| Environment | |
| Operating Temperature | -10°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC Compliant |
| Watchdog Timer | |
| Watchdog Timer | Software Programmable support 1~255 sec. System reset |

## Ordering Information

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|---|---|
| IMB-MTL-U7E-R10 | Micro-ATX motherboard supports 14th Gen. Intel® Meteor Lake-H 155H on-board processor, DDR5, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
| IMB-MTL-U5E-R10 | Micro-ATX motherboard supports 14th Gen. Intel® Meteor Lake-H 125H on-board processor, DDR5, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
| IMB-ARL-U/H-U7E-R10 | Micro-ATX motherboard supports 15th Gen. Intel® ArrowLake-H 255H on-board processor, DDR5, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
| IMB-ARL-U/H-U7A-R10 | Micro-ATX motherboard supports 15th Gen. Intel® ArrowLake-H 255U on-board processor, DDR5, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
| IMB-ARL-U/H-U5E-R10 | Micro-ATX motherboard supports 15th Gen. Intel® ArrowLake-H 225H on-board processor, DDR5, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |

## Packing List

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|---|---|
| 1 x IMB-MTL/IMB-ARL-U/H single board computer | 1 x I/O Shielding |
| 2 x SATA cable | 1 x QIG |