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

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
	3 x PCIe x4 : PCIe Gen4 x4
	2 x M.2(NGFF) - 1 x M.2 B key 3080 (for IRIS2-2600) 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

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

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