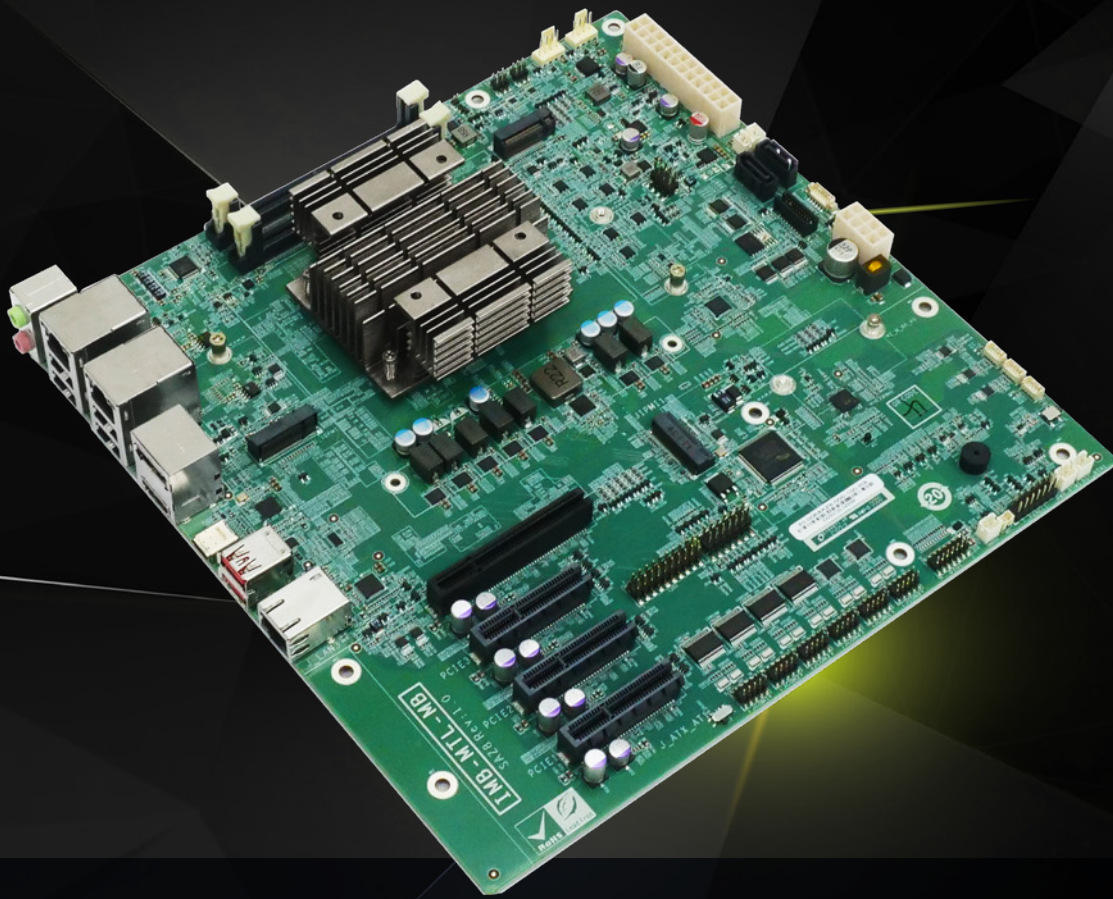


# IMB-MTL

micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H on-board processor

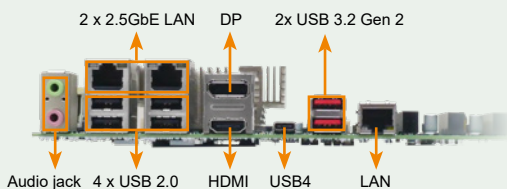
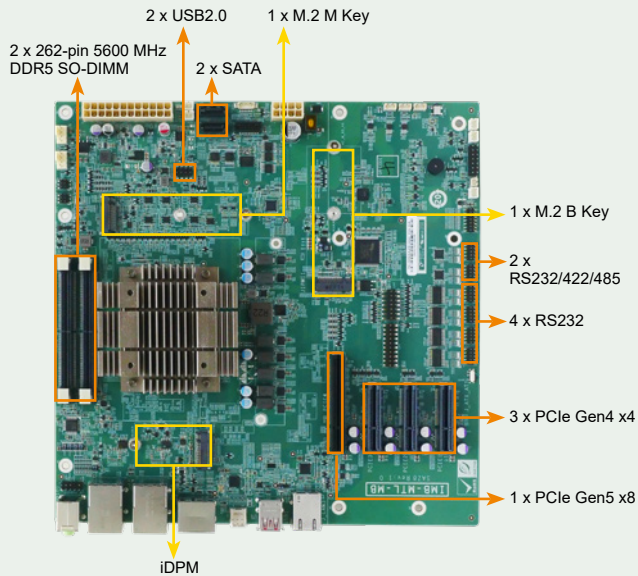
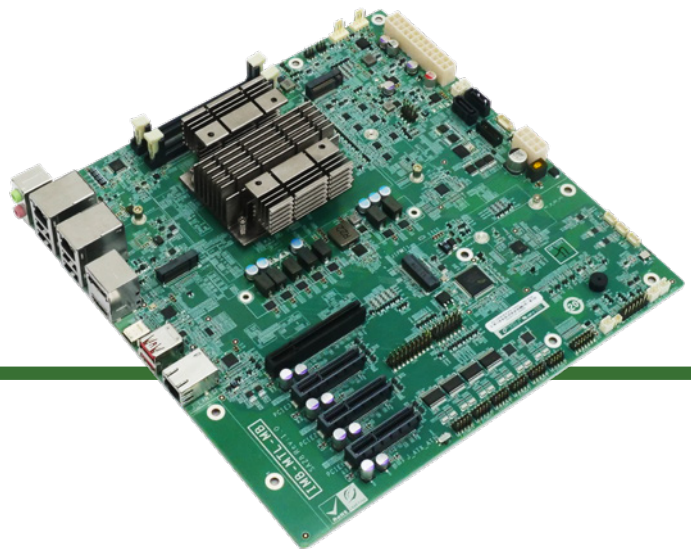
- Support 4800MHz DDR5 SO-DIMM
- Quad independent displays with iDPM, USB4, HDMI and DP
- High speed I/O interface for USB 3.2 Gen 2, SATA 6Gb/s
- Support 1 x PCIe Gen5 x8, 3 x PCIe Gen4 x4, 1 x M.2 B key and 1 x M.2 M key slot



[www.ieiworld.com](http://www.ieiworld.com)

# IMB-MTL

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



## Support Intel® 14th mobile SOC processor

Equipped with 14th Gen. Intel® mobile Meteor Lake-H on-board processor



## Support Intel® I226-V and Intel® I226-LM 2.5GbE Network Controller

Two RJ45 network ports are provided via Intel® I226-V and Intel® I226-LM 2.5GbE network controller to achieve up to 2.5GbE network transmission rate



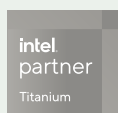
## Abundant Expansion Slots

One PCIe Gen5 x8 slot and three PCIe Gen4 x4 slots can connect PCIe expansion cards. M.2 B key for IRIS2-2600, and M.2 M key for NVME storage.

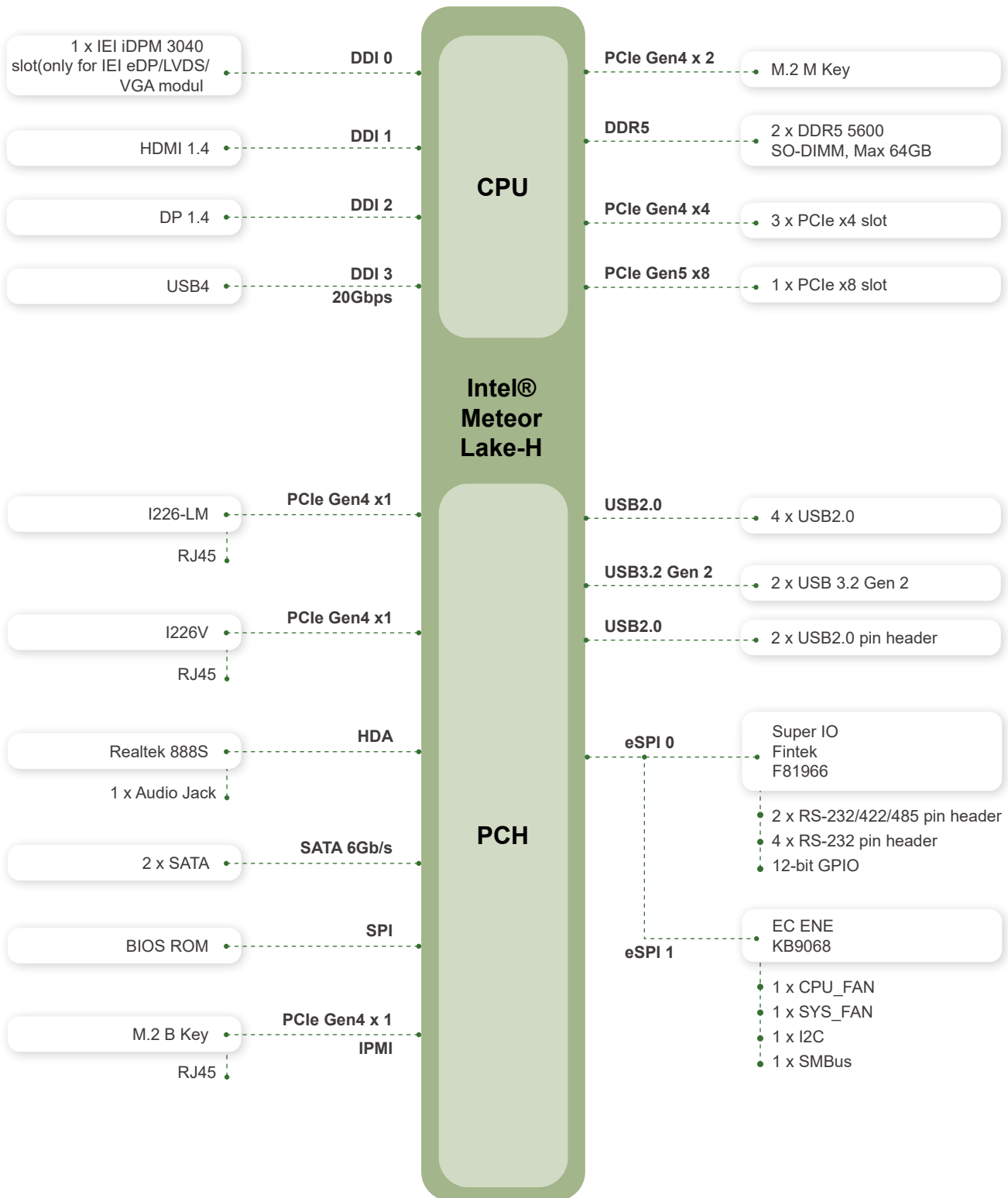


## Quad independent displays

Quad independent displays with 1x HDMI 1.4, 1x DP1.4, 1x USB4 and 1x IEI iDPM 3040 slot which enabling users to add LVDS/eDP/VGA/DP display interface upon requirement.



# Block Diagram



## Dimensions

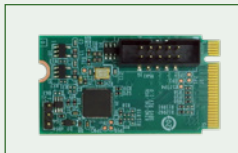
## Specifications

Model	IMB-MTL
CPU	14th Gen. Intel® mobile Meteor Lake-H on-board processor
BIOS	AMI UEFI BIOS
Memory	2 x 262-pin 5600 MHz DDR5 SO-DIMM, system up to 96G
Graphics Engine	Intel® New Xe LPG Graphics
Display Output	Quad independent display 1 x HDMI 1.4 (up to 4K @30Hz) 1 x DP1.4 (up to 4K @60Hz) 1 x USB4 (up to 4096 x 2160 @60Hz) 1 x IEI iDPM 3040 slot
Ethernet	LAN1: Intel® I226LM 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller LAN3: For IPMI
External I/O Interface	2x USB 3.2 Gen 2 (10Gb/s) 4 x USB 2.0
Internal I/O Interface	2 x SATA 6Gb/s 2 x USB 2.0 (2x4 pin, P=2,54) 4 x RS-232 (2x5 pin, P=2.0) 2 x RS-232/422/485 (2x5 pin, P=2.0)
SMBus	1 x SMBus (1x4 pin)
I2C	1 x I <sup>2</sup> C (1x4 pin)
Audio	Realtek ALC888S HD Audio codec 1 x Audio Jack (Line-out, Mic-in) 1 x Analog audio (2x5 pin)
Front Panel	1 x Front Panel (2x7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
Expansion	1 x PCIe Gen5 x8 Slot 3 x PCIe Gen4 x4 1 x M.2 B key 3080 (for IRIS2-2600) 1 x M.2 M key 2280 (PCIe Gen4 x2)
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
Chassis Open	1 x Chassis intrusion (1x2 pin)
TPM	1 x TPM2.0 (2 x 10pin)
Fan connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Power Supply	ATX
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	TBD
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Dimension	244mm x 244mm
Weight	GW:1200g / NW:700g
Certification	CE/FCC Compliant

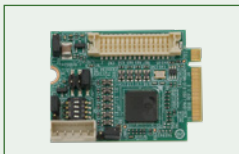
## Optional Accessories



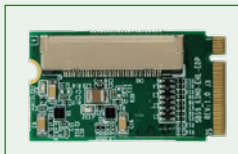
CB-USB02A-RS



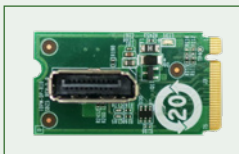
iDPM-VGA-R10



iDPM-LVDS-R10



iDPM-eDP-R10



iDPM-DP-R10

## Packing List

1 x IMB-MTL single board computer	2 x SATA cable
1 x I/O Shielding (45014-0108C0-00-HF)	1 x QIG

## Ordering Information

IMB-MTL-U5A-R10	micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H on-board processor, DDR5, 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
IMB-MTL-U7A-R10	micro-ATX motherboard supports 14th Gen. Intel® mobile Meteor Lake-H on-board processor, DDR5, 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

## Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.0
32205-000702-100-RS	RS-232 cable, 200 mm, p=2.0 mm
iDPM-eDP-R10	eDP to eDP DisplayPort converter board (for IEI iDPM connector)
iDPM-LVDS-R10	eDP to LVDS DisplayPort converter board (for IEI iDPM connector)
iDPM-VGA-R10	eDP to VGA Connector converter board (For IEI Display Module)
iDPM-DP-R10	eDP to DP Connector converter board (For IEI Display Module)