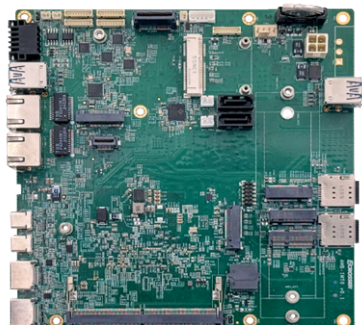


AMB-IMT0

Intel® Core™ Ultra 7 / Ultra 5



Features

- Intel® Core™ Ultra processors (Series 1)
- 1 x DDR5 SODIMM
- 12 VDC
- TPM 2.0
- Support LAN, COM, USB, Display, DIO, CAN

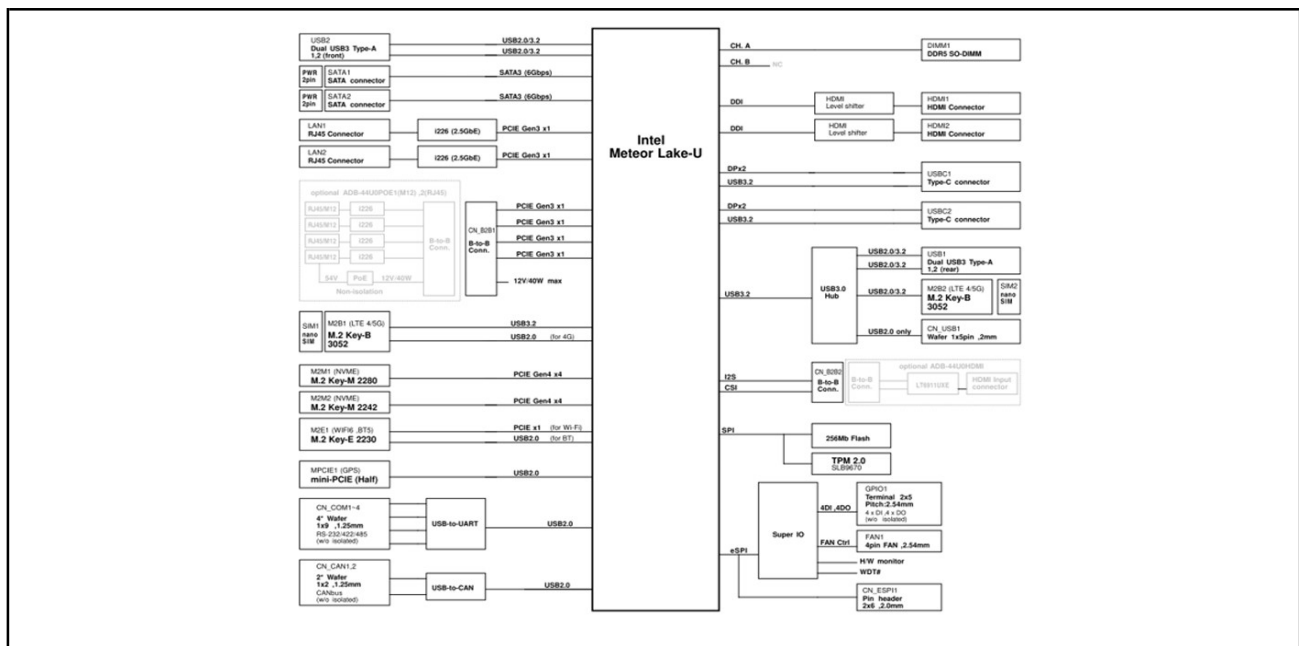
Specifications

System	
CPU	Intel® Core™ Ultra processors (Series 1) Ultra 7-155U, Ultra 5-125U
Memory	1 x DDR5 SODIMM up to 48 GB
Storage	2 x SATA3 6Gbps
	1 x M-Key 2280, PCIe Gen4 x4
	1 x M-Key 2242, PCIe Gen4 x4
Real time clock	Yes
Security	TPM 2.0
Operating System	Ubuntu 22.04 LTS, Windows 10,11 (64-bit)
Watchdog Timer	Software programmable 0~255 Seconds, 0 = Disable Timer
Power Requirement	
Input Voltage	12 VDC
Power Consumption	60 W (typical)
Power Connector	ATX12V 4pin Power Input
Environmental and Mechanical	
Dimension	165(L) x 159.5(W)mm
Weight	205g
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 80 °C (-40 ~ 176 °F)
Operating Humidity	5% ~ 95% relative humidity (RH), non-condensing
Certification	
Regulations	CE, FCC, RoHs

Interface	
Serial Port	4 x RS232/422/485 Wafer 9pin 1.25mm
CAN Bus	2 x CAN Bus, Wafer 2pin 1.25mm
Ethernet	2 x RJ45 Intel® I226IT 2.5GbE LAN
USB	4 x USB 3.2 Gen2 x1 (Type A)
	2 x USB 3.2 (Type C)
	1 x Wafer 5pin 2mm for USB2.0
DI/DO	4 x DI, 4 x DO Isolated
Display	2 x HDMI
FAN	1 x 4pin 2.54mm
Expansion Slot	2 x M.2 B-Key 3042/3052, PCIe x1 + USB 3.2/2.0
	1 x M.2 E Key 2230, PCIe x1 + USB 2.0
	1 x mPCIe (Half), USB 2.0
SIM Slot	2 x Nano SIM Card Socket

Block Diagram

Unit: mm / inch



Ordering Information

Packing List

- 1 x AMB-IMT0
- 1 x 10 Pin Terminal block

Part Number

2AMB-IMT0-00-01	AMB-IMT0 Intel Ultra 5-125U 12VDC
2AMB-IMT0-01-01	AMB-IMT0 Intel Ultra 7-155U 12VDC

Optional Accessories

Part Number / Item

4170A000002	SATA22P to SATA7p/WAFER2.0-2p 120+150mm
4170A100144	Cable.Wafer1x9P ,Pitch:1.25mm.24cm.DB9 Male wt Nut for RS-232
4170A100146	Cable.Wafer1x9P ,pitch:1.25mm.10cm.Geh-oswego for can bus