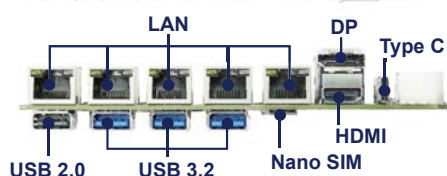


3I140DW

3.5" Embedded SBC supports Intel® Core™ Ultra processors (Meteor Lake-U/H) (Arrow Lake-U/H)

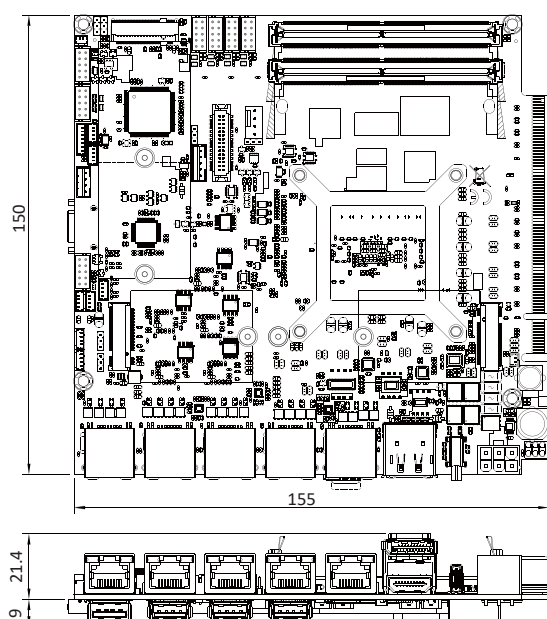
1 x HDMI®, 1 x DP, 1 x LVDS, 1 x Type C 5 x Intel 2.5Gb Ethernet, 3 x M.2, 1 x PCIe golden Finger, 4DI/4DO, 3 x USB 3.2, 3 x USB 2.0, 4 x COM, 1 x Nano SIM, 2 x CANBus, Audio



Features:

- Intel® Core™ Ultra 7/5 processors
- 2 x DDR5 SODIMM (Max. 64GB)
- Multiple Independent display:
 - 1 x HDMI®, 1 x DP, 1 x LVDS, 1 x Type C DP ALT
- 5 x Intel 2.5 GbE LAN, 3 x USB 3.2 Gen 1x1, 3 x USB 2.0
- 1 x M.2 M Key, 2 x M.2 B Key, 1 x Nano SIM, 1 x PCIe
- 4 x COM, 2 x CANBus 4DI/4DO, Audio
- TPM 2.0, SMBus, I2C, I2S

Dimensions: (Unit:mm)



Specifications :

- CPU**
 - Intel® Core™ Ultra 7/5 Series processors (Meteor Lake-U/H) (Arrow Lake-U/H)
- Graphics**
 - Intel® Arc™ graphics ; Intel® UHD Graphics
- System Memory**
 - 2 x DDR5 SODIMM, Max 64GB
- Storage**
 - 1 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
 - 1 x M.2 M key Type 2280 (PCIe x4), Support NVMe
- BIOS**
 - AMI UEFI BIOS
- Display**
 - 1 x HDMI® ; 1 x DP ; 1 x Type C DP ALT,
 - 1 x LVDS / eDP (eDP for BIOS)
- TPM**
 - Hardware TPM 2.0 ; OEM Optional to Firmware TPM 2.0
- LAN**
 - 5 x Intel 2.5GbE I226-IT (external)
- Audio**
 - High Definition Audio Specification, Support Line-out / Mic-in / Line-in
 - Two channel Class D Audio Amplifier
- Expansion Interface**
 - 1 x M.2 M key Type 2280 (PCIe x 4), Support NVMe, (OEM to Type 3042)
 - 1 x M.2 B key Type 3042 (USB 3.2 Gen 1x1 / USB 2.0) (OEM to Type 3052)
 - 1 x M.2 B key Type 3042 (PCIe / USB 2.0)
 - 1 x Nano SIM
 - 1 x PCIe x 1 golden finger with U Series CPU or
 - 1 x PCIe x 8 golden finger with H Series CPU

Expansion Module

Converter Card:

CN064: M.2 B Key to M.2 E Key 2230, WiFi 6 + BT

- USB**
 - 3 x USB 3.2 Gen 1x1 (external), 1 x Type C USB 3.2
 - 1 x USB 2.0 (external) ;
 - 2 x USB 2.0 (internal)
- Serial IO**
 - 4 x RS232 / 422 / 485 (internal) ; eSPI
 - *COM1~COM4 pin9 5V / 12V (Option)
- CANBus**
 - 2 x CANBus
- SMBus / I2C / I2S**
 - 1 x SMBus ; 1 x I2C ; 1 x I2S
- GPIO**
 - Hardware digital Input & Output, 4 x DI / 4 x DO
- WDT**
 - Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input**
 - Wide Range DC IN +9~36V
- Dimension**
 - 3.5" Plus (155 x 150 mm) ; Weight: 205g
- Operation Temperature (100% CPU Usage)**
 - 20°C~70°C
 - (under specific environmental & CPU power consumption conditions)
- Operation Humidity**
 - 5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)**
 - HAWK
- OS Support**
 - Windows 10 / 11 (64bit)
 - Linux Ubuntu 22.04 / Kernel 5.15