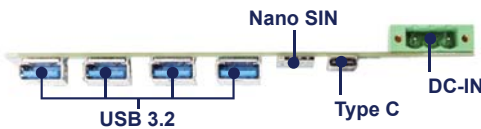
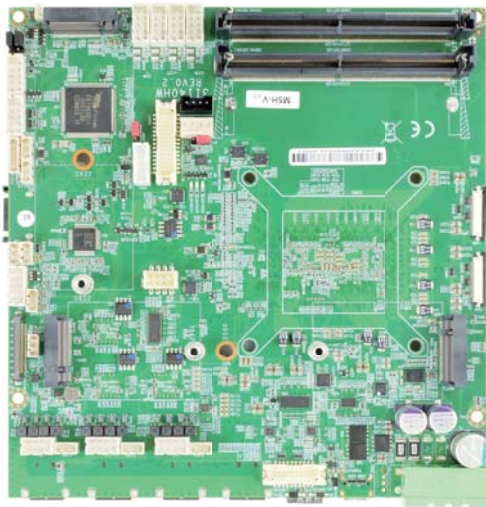


# 3I140HW

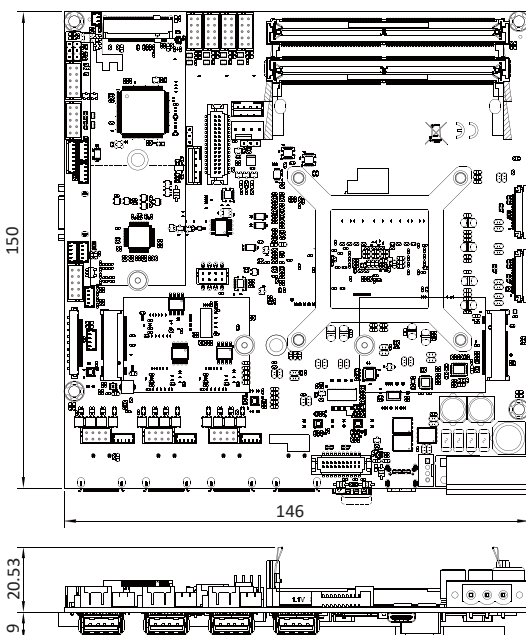
3.5" Embedded SBC supports Intel® Core™ Ultra processors (Meteor Lake-U/H) (Arrow Lake-U/H)  
 1 x HDMI®, LVDS/eDP, 1 x Type C, 3 x Intel 2.5Gb Ethernet, 3 x M.2, 1 x High Speed Connector (PCIe x2)  
 4DI/4DO, 4 x USB3.2, 3 x USB 2.0, 4 x COM, 1 x Nano SIM, 2 x MIPI-CSI-2, Audio



## Features:

- Intel® Core™ Ultra 7/5 Series processors (Meteor Lake-U/H) (Arrow Lake-U/H)
- 2 x DDR5 SODIMM (Max.64GB)
- Multiple Independent display: 1 x HDMI®, LVDS/eDP, 1 x Type C
- 3 x Intel 2.5 GbE LAN, 4 x USB 3.2 Gen 1x1, 3 x USB 2.0
- 1 x M.2 M Key, 2 x M.2 BKey, 1 x Nano SIM, 4 x COM
- 1 x High Speed Connector (PCIe x2), 4DI/4DO, Audio
- 2 x MIPI-CSI-2, TPM 2.0, SMBus, I2C

## 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® (internal) ; 1 x LVDS or eDP, 1 x Type C
- TPM  
Hardware TPM 2.0 ; OEM Optional to Firmware TPM 2.0
- LAN  
3 x Intel 2.5GbE I226-IT (internal)
- 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 2242 / 3042 (USB3.2 Gen 1x1 / USB2.0) (OEM to Type 3052)  
1 x M.2 B key Type 2242 / 3042 (PCIe / SATA / USB 2.0)  
1 x Nano SIM  
1 x High Speed connector (PCIe x2)

### Expansion Module

#### Converter Card:

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

- USB  
4 x USB 3. 2 Gen 1 x 1 (external)  
1 x Type C USB 3. 2 Gen 1 x 1 (external) (No USB-PD Support) ;  
3 x USB 2.0 (internal)
- Serial IO  
4 x RS232 / 422 / 485 (internal) ; eSPI  
\*COM1~ COM4 pin9 5V / 12V (Option)
- MIPI-CSI  
2 x MIPI-CSI-2 D-PHY
- SMBus / I2C / I2S  
1 x SMBus ; 1 x I2C ; 1 x I2S (OEM)
- 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 (146 x 150 mm) ; Weight: 180g
- 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)  
Waterproof system, panel pc
- OS Support  
Windows 10 / 11 (64bit)  
Linux Ubuntu 22.04 / Kernel 5.15

Specification are subject to change without prior notice. ODM / OEM is available.