3I160DW

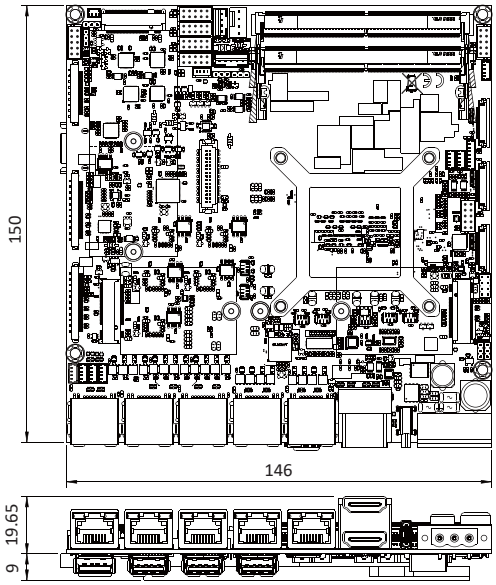
Embedded SBC supports Intel® Core™ Ultra Series 3 (Panther Lake) CPU 2 x HDMI®, 1 x LVDS or eDP (BIOS), 1 x Type C, 5 x Intel 2.5Gb Ethernet, 3 x M.2, 1 x PCIe x 2, 2 x PCIe x 4, 4DI / 4DO, 3 x USB 3.2, 5 USB 2.0, 4 x COM, 1 x Nano SIM, 3 x MIPI-CSI, HD Audio



Features:

- Intel® Core™ Ultra Series 3 (Panther Lake) CPU
- Revamped iGPU and integrated NPU
- 2 x DDR5 SODIMM, Max 128GB
- Multiple Independent display:
  2 x HDMI®, 1 x LVDS or eDP (BIOS), 1 x Type C
- 5 x Intel 2.5 GbE LAN, 3 x USB 3.2 Gen 1x1, 5 x USB 2.0
- 1 x M.2 M Key, 2 x M.2 BKey, 1 x Nano SIM,
  1 x PCIe x2, 2 x PCIe x 4
- 4 x COM, 4DI / 4DO, 3 x MIPI-CSI, HD Audio
- TPM 2.0, SMBus, I2C, I2S

Dimensions: (Unit:mm)



Specifications :

■ CPU
Intel® Core™ Ultra Series 3 (Panther Lake) CPU

■ Graphics
Intel® ArcTM B370 (Core Ultra 336H or 366H) Graphics
Intel® Graphics

■ System Memory
2 x DDR5 SODIMM, Max 128GB

■ Storage
1 x SATA port
1 x M.2 M key Type 2280 / 3080 (OEM to 2242 / 3042), Support NVMe SSD
1 x M.2 B key Type 2242 / 3042, Support NVMe SSD

■ BIOS
AMI UEFI BIOS

■ Display
2 x HDMI® ; 1 x LVDS or eDP (BIOS) ; 1 x Type C DP ALT Mode

■ TPM
TPM 2.0

■ LAN
5 x Intel 2.5GbE I226-IT (external)

■ Expansion Interface
1 x M.2 M key Type 2280 (PCIe x2), Support NVMe, (OEM to Type 3042)
1 x M.2 B key Type 2242 / 3042 (USB 3.2 / USB 2.0) (OEM to Type 3052)
1 x M.2 B key Type 2242 / 3042 (PCIe x2 / USB 2.0)
1 x Nano SIM, High Speed Connector (1*PCIe x 2, 2*PCIe x 4)

Expansion Module	
Converter Card	CN064: M.2 B+M Key to M.2 E Key 2230, WiFi 6 + BT

■ USB
3 x USB 3.2 Gen 1 (external), 1 x Type C USB 3.2 (external)
1 x USB 2.0 (external) ; 4 x USB 2.0 (internal)

■ Serial IO
4 x RS232 / 422 / 485 (internal)

■ Camera interface
3 x MIPI-CSI

■ Audio
Mic-IN, Line-in / Line-out with AMP

■ SMBus / I2C / I2S
1 x SMBus ; 2 x 12C ; 1 x I2S

■ GPIO
Hardware digital Input & Output, 4 x DI / 4 x DO

■ WDT
Hardware Watch Dog Timer, 0~65535 sec programmable

■ Power Input
Wide Range DC IN +9~36V (Typ: +12V)

■ Dimension
3.5" Plus SBC (146 x 150 mm) ; 202g

■ Operation Temperature
-20°C~+60°C (Ultra 7 365)
-40°C (By Ultra 5 335RE/336HRE, Ultra 7 365RE / 336HRE)

■ Operation Humidity
5~95%, non-condensing

■ Chassis (OEM I/O Expansion by request)
Box PC: HAWK

■ OS Support
Windows 10/11 (64bit)
Ubuntu26.04 LTS, Kernel->7.0.0-14-generic