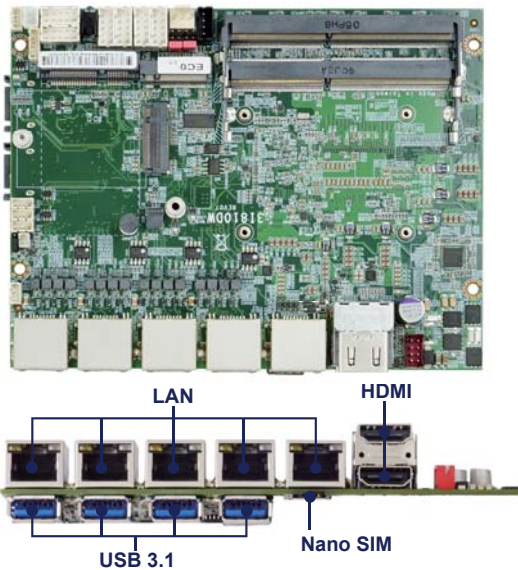


3I810DW

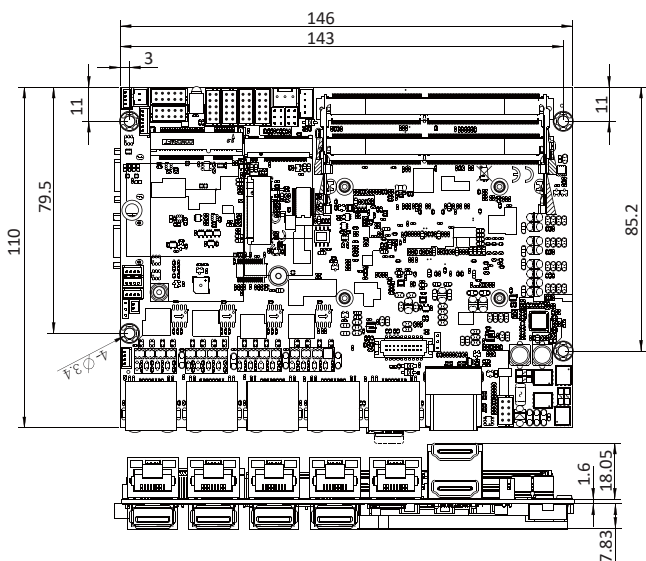
3.5" SBC supports Intel® 8th Gen Whiskey Lake-U i7 / i5 / i3, Pentium / Celeron CPU, 2 x HDMI, 5 x Intel Gb Ethernet, 2 x M.2 8DI / 8DO, 7 x USB, 2 x COM, 1 x Mini PCIe, 1 x Nano SIM, SMBus



Features:

- 8th Gen Intel® Whiskey Lake-U, i7 / i5 / i3 / Pentium / Celeron CPU
- 2 x DDR4 SODIMM socket, Max. 64GB
- Multiple Independent display: 2 x HDMI
- 5 x Intel GbE LAN, 4 x USB 3.1, 3 x USB 2.0
- 2 x COM, 8DI / 8DO, 1 x Mini PCIe, 1 x Nano SIM
- 2 x M.2 B Key, Support NVME, SMBus
- TPM 2.0 (Optional)

Dimensions: (Unit:mm)



Specifications :

- CPU
Intel® Whiskey Lake-U, i7 / i5 / i3 / Pentium / Celeron CPU
- MB Chipset
Intel® Whiskey Lake-U SoC
- Graphics
Intel® UHD Graphics, Support DirectX 12 & OpenGL 4.5
- System Memory
2 x DDR4 2400 MHz SODIMM, Max. 64GB
- Storage
2 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
1 x M.2 B Key, Type 2242 (mSATA / USB / PCIe x 1), Support NVME
1 x M.2 B Key, Type 3042 (USB 3.0 / 2.0 / PCIe x 1*), Support NVME
- BIOS
AMI UEFI BIOS
- Display
2 x HDMI
- TPM
TPM 2.0 (Option)
- LAN
1 x Intel GbE I219LM (external)
4 x Intel 2.5 GbE I225-V (external)
- Audio (OEM)
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
Two channel Class D Audio Amplifier
- Expansion Interface
1 x Full size Mini PCIe (PCIe / USB), mSATA for OEM
1 x M.2 B Key, Type 2242 (mSATA / USB / PCIe x 1)
1 x M.2 B Key, Type 3042 (USB 3.0 / 2.0 / PCIe x 1*) + 1 x NANO SIM
* If 2242 M.2 adopts PCIe x 2 signal, 3042 M.2 will support USB 3.0 / 2.0 signal only.

Expansion Options

| | |
|---------|---|
| CN064 | M.2 B key 2242 to M.2 E Key 2230, WiFi 6 + BT |
| CN067 | M.2 B key 2242 to M.2 B Key 2252, 4G / 5G (3.7V by BOM Control) |
| CN059 | USB to Line-out / Mic-in |
| CC007 | USB to 4 port COM |
| CIO116G | SMBus to 8DI + 8DO |
| PW351 | 1 port PoE PSE |
| PW352 | 2 port PoE PSE |
| PW301 | 802.3AF / AT PD module |
| PW205 | Wide Range power board (9~36V) with power Ignition on/off delay |
| PW206 | 12V / 24V DC to DC Redundant Power Board |
| PW022 | Wide Range power board (24V / 48V) |

- USB
4 x USB 3.1 (external) ; 3 x USB 2.0 (internal)
- Serial IO
2 x RS232 / 422 / 485 (internal)
*COM1, COM2 pin9 5V / 12V selectable by jumper
- GPIO
Hardware digital Input & Output, 8 x DI / 8 x DO
- SMBus
1 x SMBus
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input
Wide Range +9~36V
- Dimension
3.5" (146 x 110 mm) ; Weight: 165g
- Operation Temperature (100 % CPU Usage)
-20°C~70°C (Core i7 8665UE)
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Box PC: SKY 3, Task
- OS Support
Windows® 10 IOT ; Windows® 11 IOT (i7 CPU only)
Ubuntu 22.04 above, Fedora 36 above

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