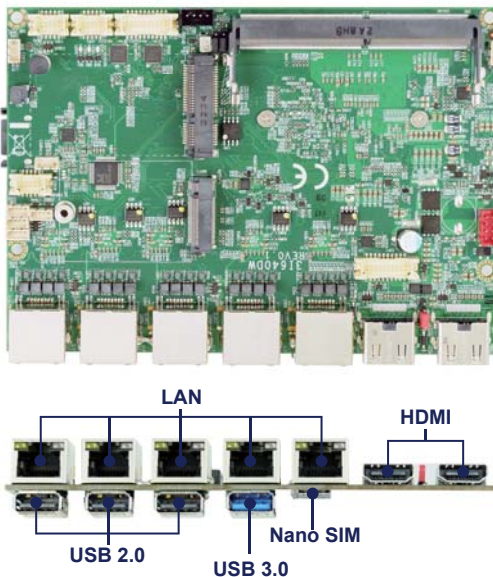


3I640DW

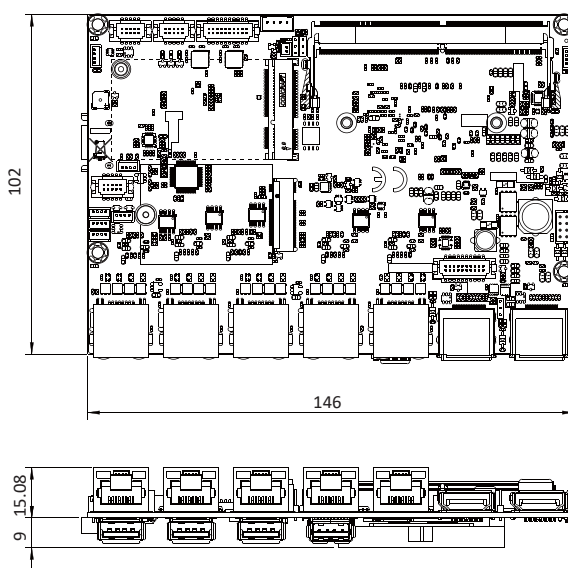
3.5" Embedded IPC Board supports Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
 2 x HDMI, eDP, 5 x Intel 2.5 Gb Ethernet, 8 x USB,
 2 x COM, 1 x M.2, 1 x Mini PCIe, 1 x Nano SIM, 4DI / 4DO



Features:

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- 1 x DDR4 SODIMM, Max. 32GB
- Independent display: 2 x HDMI, eDP
- 5 x Intel 2.5 GbE LAN, 1 x USB 3.0, 7 x USB 2.0
- 2 x COM, 1 x Mini PCIe, 1 x M.2, 1 x Nano SIM
- 4DI / 4DO, TPM 2.0

Dimensions: (Unit:mm)



Specifications :

- CPU
Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- MB Chipset
Intel® Elkhart Lake SoC
- Graphics
Intel® HD Graphics, Support DirectX 12.1 & OpenGL 4.5
- System Memory
1 x DDR4 SODIMM, Max. 32GB
- Storage
1 x M.2 B Key Type 3042 PCIe-SSD
1 x SATA (share with mSATA)
- BIOS
Insyde UEFI BIOS
- Display
2 x HDMI (OEM to DP), eDP
- TPM
TPM 2.0 (Firmware) ; OEM Optional to Hardware TPM
- LAN
5 x Intel 2.5 GbE I225 / I226 (external)
- Audio (OEM)
High Definition Audio Specification, Support Line-out / Mic-in / Line-in Two channel Class D Audio Amplifier (OEM)
- Expansion Interface
1 x M.2 B Key Type3042 (SATA / USB 2.0 / USB 3.0)
1 x Mini PCIe (USB 2.0 / PCIe / mSATA-share with SATA)
1 x Nano SIM

Expansion Module

| | |
|-----------------------|--|
| Converter Card | CN066: Mini PCIe to M.2 E key 2230, WiFi 6 + BT |
| | CN064: M.2 B key 3042 to M.2 E Key 2230, WiFi 6 + BT |
| | CN067: M.2 B key 3042 to M.2 B Key 2252, 4G / 5G |

- USB
1 x USB 3.0 (external) ; 3 x USB 2.0 (external) ; 4 x USB 2.0 (internal)
- Serial IO
2 x RS232 / 422 / 485 (internal)
*COM1, COM2 pin9 5V / 12V (option)
- GPIO
Hardware digital Input & Output, 4 x DI / 4 x DO
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- SMBus
1 x SMBus
- I²C
I²C
- Power Input
DC-IN +12V or Wide Range +9~36V
- Dimension
3.5" (146 x 102 mm)
- Operation Temperature (100 % CPU Usage)
-20°C~70°C (100 % CPU Usage)
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Box PC: SKY 3, TASK, TWITTER
- OS Support
Windows® 10 IOT (64bit),
Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above