

21640HW

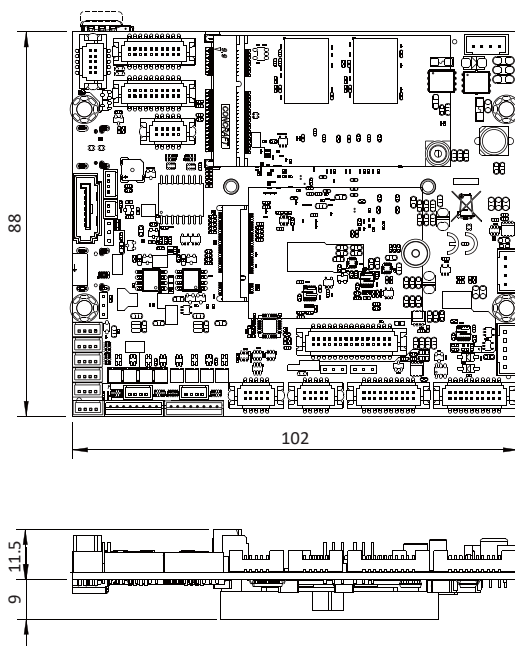
2.5" wafer I/O Embedded IPC Board supports Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
HDMI, LVDS, eDP, 2 x Intel Gb Ethernet, 6 x USB, Touch Screen,
4 x COM, 1 x M.2, 1 x Mini PCIe, 1 x Nano SIM, HD Audio, 4DI / 4DO



Features:

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- On Board LPDDR4 up to 8GB
- Independent display: 1 x HDMI, 1 x LVDS, 1 x eDP
- 2 x Intel GbE LAN, 1 x USB 3.0, 5 x USB 2.0
- 4 x COM, 1 x Mini PCIe, 1 x M.2, 1 x Nano SIM
- Touch Screen, HD Audio, 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
On Board LPDDR4 3200 MHz, Max. 8GB
- Storage
1 x mSATA (Mini Card)
1 x M.2 B Key Type 3042 PCIe-SSD
1 x SATA
- BIOS
Insyde UEFI BIOS
- Display
1 x HDMI, 1 x eDP, 1 x Dual Channel, 48 bits LVDS
- Touch
USB interface Touch Screen controller
- TPM
TPM 2.0 (Firmware) ; OEM Optional to Hardware TPM
- LAN
2 x Intel GbE I210 / I211 (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 B Key Type 3042 (USB 2.0 / PCIe / USB 3.0-optional to PCIe x2)
1 x Mini PCIe (USB 2.0 / mSATA-optional to PCIe)
1 x Nano SIM (option)

Expansion Module

Mini Card	GPS, 3G / 4G, WI-FI, 2 / 4 x LAN, 4 x COM, CANBus, SDI / AHD Video
M.2 Module	4G / 5G, SATA, PCIe
By Cable	Bluetooth, Digital I/O, 2 / 4 PoE, 4 x USB mini card

- USB
1 x USB 3.0 (type C) ; 5 x USB 2.0 (internal)
- Serial IO
1 x RS232 / 422 / 485 (internal)
3 x RS232
- GPIO
Hardware digital Input & Output, 4 x DI / 4 x DO
- WDT
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input
Wide Range +9~36V
- Dimension
2.5" (102 x 88 mm)
- Operation Temperature
-20°C~70°C (100 % CPU Usage)
- Operation Humidity
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)
Box PC: Waterproof Box PC, Waterproof PPC
- OS Support
Windows® 10 IOT (64bit),
Ubuntu 16.04.3 above, Fedora 26 above, CentOS 7.4 above