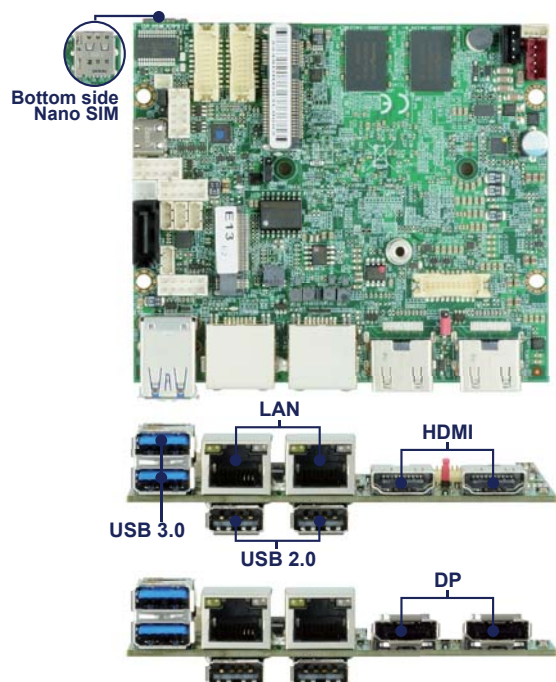


2I640CW

2.5" Plus Embedded IPC Board supports
Intel® Elkhart Lake ATOM® x6000E Series
2 x HDMI, eDP, 2 x Intel 2.5 Gb Ethernet, 7 x USB, Touch Screen,
4 x COM, 1 x M.2, 1 x Mini PCIe, 1 x Nano SIM, 4DI / 4DO, SMBus

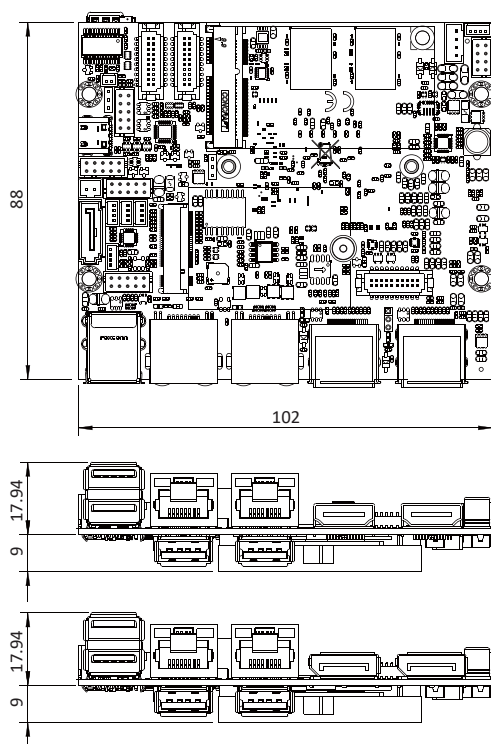


Features:

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- On Board LPDDR4 up to 8GB
- Independent display: 2 x HDMI (DP), 1 x eDP
- 2 x Intel 2.5 GbE LAN, 2 x USB 3.0, 5 x USB 2.0
- 4 x COM, 1 x Mini PCIe, 1 x M.2, 1 x Nano SIM, SMBus
- Touch Screen, 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 4 / 8GB
- Storage**
1 x M.2 B Key Type 3042 SATA-SSD
1 x SATA
- BIOS**
Insyde UEFI BIOS
- Display**
2 x HDMI (or DP), 1 x eDP
- Touch**
USB interface Touch Screen controller
- TPM**
TPM 2.0 (Firmware)
- LAN**
2 x Intel 2.5 GbE I225 / I226 (external)
- Audio**
High Definition Audio Specification, Support Line-out / Mic-in / Line-in Two channel Class D Audio Amplifier
- Expansion Interface**
1 x Mini PCIe (USB 2.0 / PCIe)
1 x M.2 B Key Type3042 (USB 2.0 / SATA / USB 3.0-optional to PCIe x2)
1 x Nano SIM

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)
DP001	eDP to VGA
eDP003	eDP to DVI
eDP004	eDP to HDMI
eDP001	eDP to LVDS (OEM)

- USB**
2 x USB 3.0 (external) ; 2 x USB 2.0 (external) ; 3 x USB 2.0 (internal)
- Serial IO**
1 x RS232 / 422 / 485 (internal)
3 x RS232 (internal)
*COM1~COM4 pin9 5V / 12V (Option)
- GPIO**
Hardware digital Input & Output, 4 x DI / 4 x DO
- SMBus**
1 x SMBus
- WDT**
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input**
Wide Range +9~24V
- Dimension**
2.5" Plus (102 x 88 mm)
- Operation Temperature**
-20°C~70°C (100 % CPU Usage)
-40°C by OEM Option
- Operation Humidity**
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)**
Box PC: TEGA, TERA, SKY 2
- OS Support**
Windows® 10 IOT ; Windows® 11 IOT
Ubuntu 22.04 above, Fedora 36 above