

2I640HL

+ Hailo-8™ edge AI processor

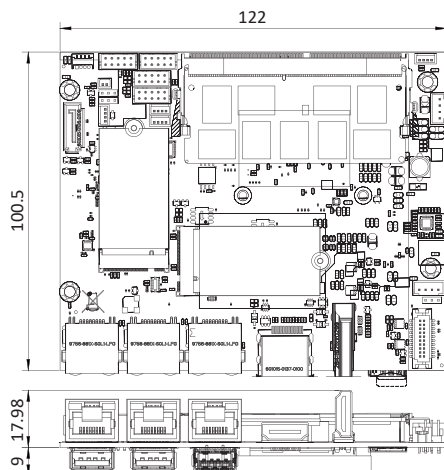
2.5" Plus SBC supports Intel® Elkhart Lake ATOM® x6000E Series
2 x HDMI®, 3 x Intel 2.5 Gb Ethernet, 4DI / 4DO, 5 x USB, 2 x COM,
2 x M.2, 1 x Nano SIM, SMBus
Hailo-8™ edge AI processor



Features:

- Intel® Elkhart Lake ATOM® x6413E / J6412 CPU
- Hailo-8™ edge AI processor
- 1 x DDR4 SODIMM socket, Max. 32GB
- Independent display: 2 x HDMI® (1 x OEM to DP), 1 x eDP
- 3 x Intel 2.5 GbE LAN, 1 x USB 3.0, 5 x USB 2.0
- 2 x COM, 4DI / 4DO, 2 x M.2, 1 x Nano SIM
- TPM 2.0 (Firmware), SMBus

Dimensions: (Unit:mm)



Specifications :

- CPU**
Intel® Elkhart Lake ATOM x6413E Quad Core 3.0 GHz CPU
Intel® Elkhart Lake Celeron J6412 Quad Core 2.6 GHz CPU
- MB Chipset**
Intel® Elkhart Lake SoC
- Graphics**
Intel® HD Graphics, Support DirectX 12.1 & OpenGL 4.5
- AI Accelerator**
Hailo-8™ edge AI processor
- System Memory**
1 x DDR4 3200 MHz SODIMM, Max. 32GB
- Storage**
1 x M.2 B Key Type 3042 / 2242 PCIe-SSD / SATA-SSD
1 x M.2 B Key Type 2242 PCIe-SSD
1 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)
- BIOS**
Insyde UEFI BIOS
- Display**
2 x HDMI® (1 x OEM to DP), eDP
- TPM**
TPM 2.0 (Firmware) ; OEM Optional to Hardware TPM 2.0
- LAN**
3 x Intel 2.5 GbE I226-IT (external)
- Expansion Interface**
1 x M.2 B Key Type 2242 (PCIe x2 / USB 2.0)
1 x M.2 B Key Type 2242 / 3042 (SATA / PCIe / USB 2.0-OEM to USB 3.0), 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**
1 x USB 3.0 (external) ; 2 x USB 2.0 (external) ; 3 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
- SMBus**
1 x SMBus
- WDT**
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input**
Wide Range +9~24V
- Dimension**
2.5" Plus (122 x 100 mm) ; Weight: 120g
- Operation Temperature**
-40°C~70°C (100 % CPU Usage)
- Operation Humidity**
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)**
Box PC: SKY 2, NET-III
- OS Support**

Windows® 10 IOT ; Windows® 11 IOT

Ubuntu 22.04 above, Ubuntu 22.04 host OS, Hailo SW via Ubuntu container

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