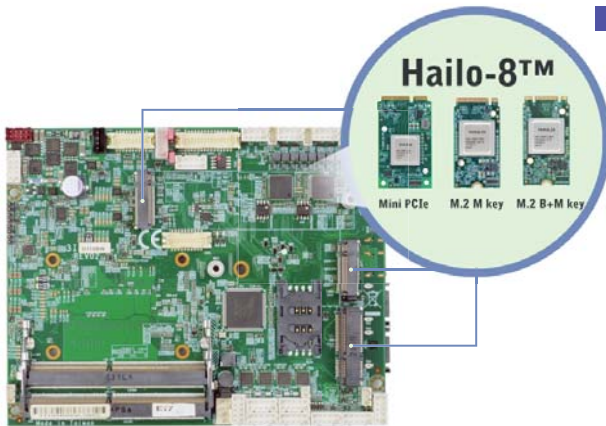


# 3110HW + Hailo-8™ AI module

3.5" SBC supports Intel® 11th Gen Tiger Lake-UP3, i7 / i5 / i3 / Celeron CPU, VGA, HDMI (or DP), eDP / LVDS, 3 x Intel Gb Ethernet, Audio, 2 x M.2, Touch Screen controller, 4DI / 4DO, 6 x USB, 4 x COM, 1 x Mini PCIe, 1 x SIM, Battery Charger, SMBus Pre-installed Mini PCIe / M.2 Hailo-8™ AI Accelerator



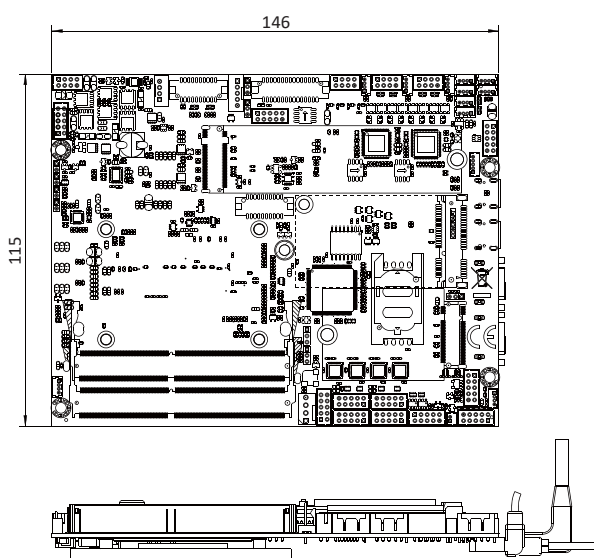
**HAILO**  
Empowering Intelligence



## Features:

- 11th Gen Intel® Tiger Lake-UP3, i7 / i5 / i3 / Celeron CPU
- Pre-installed Mini PCIe / M.2 Hailo-8™ AI Accelerator
- 2 x DDR4 SODIMM (Max. 64GB)
- Multiple Independent display:  
VGA, HDMI (or DP), eDP or LVDS
- 3 x Intel GbE LAN, 6 x USB 2.0
- 4 x COM, 4DI / 4DO, 1 x Mini PCIe, 1 x SIM
- 1 x M.2 B Key, 1 x M.2 M Key
- TPM 2.0 (Firmware), SMBus
- Battery Charger Function (3110BW)
- **OEM Option:**  
DP (Type C),  
1 x PCIe x 1 (Type C\*)  
\*LEX-defined Type C pin configuration

## Dimensions: (Unit:mm)



## Specifications :

- CPU  
Intel® Tiger Lake-UP3, i7 / i5 / i3 / Celeron CPU
- MB Chipset  
Intel® Tiger Lake-UP3 SoC
- Graphics  
Intel® Iris® Xe Graphics and media encode / decode engine  
Intel® UHD Graphics, Support DirectX 12 & OpenGL 4.5
- System Memory  
2 x DDR4 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 3042 (PCIe x2 / mSATA / USB 3.0 / 2.0)-share SATA2  
1 x M.2 M key Type 2280 (PCIe x4), Support NVMe
- BIOS  
AMI UEFI BIOS
- Display  
1 x VGA, 1 x HDMI (or DP), eDP or Dual Channel, 48 bits LVDS
- Touch  
USB touch screen controller
- TPM  
TPM 2.0 (Firmware) ; OEM Optional to Hardware TPM
- LAN  
1 x Intel GbE I219LM (internal)  
2 x Intel 2.5 GbE I225-IT (internal) w/Core CPU or 2X I225-V w/Celeron CPU
- 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 2.0)  
1 x M.2 B key Type 3042 (PCIe x2 / mSATA / USB 3.0 / 2.0)  
1 x M.2 M key Type 2280 (PCIe x4), Support NVMe  
1 x SIM

### Expansion Module

<b>Converter Card</b>	CN066: Mini PCIe to M.2 E Key 2230, WiFi 6 + BT CN064: M.2 B key 2242 to M.2 E Key 2230, WiFi 6 + BT (by JSB3 settings)
	CN067: M.2 B key 2242 to M.2 B Key 2252, 4G / 5G (3.7V by BOM Control)

- USB  
6 x USB 2.0 (internal)
- **USB Expansion**  
USB to Bluetooth, COM, Mini Card, M.2, Audio board
- Serial IO  
4 x RS232 / 422 / 485 (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 +9~36V ; Battery Charger function (3110BW)
- Dimension  
3.5" (146 x 115 mm)
- Operation Temperature (100 % CPU Usage)  
-40°C~+70°C (Core i GRE series CPU)  
-20°C~+70°C (Core i G7E / G7 series CPU)
- Operation Humidity  
5~95%, non-condensing
- Chassis (OEM I/O Expansion by request)  
Waterproof System ; Waterproof PPC