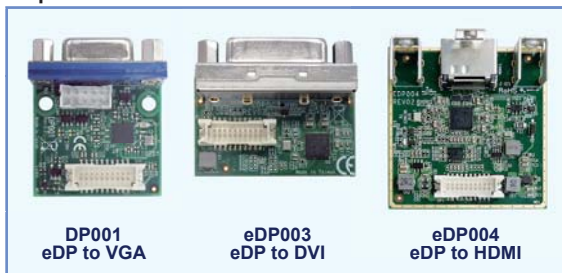


# 31470HW + Hailo-8™ AI module

3.5" Plus SBC supports 10th Gen Intel® Comet Lake-S i9 / i7 / i5 / i3 Pentium / Celeron (35W) CPU, Intel® Q470 chipset  
eDP, 5 x Intel Gb Ethernet, 8 x USB, 8DI / 8DO  
4 x COM, 1 x Mini PCIe, 1 x M.2, 1 x PCIe, 1 x SIM, SMBus  
Pre-installed M.2 Hailo-8™ AI Accelerator



Option:



## Specifications :

- CPU  
10th Gen Intel® Comet Lake-S i9 / i7 / i5 / i3 Pentium / Celeron (35W) CPU
- MB Chipset  
Intel® Q470
- Graphics  
Intel® UHD Graphics, Support DirectX 12 & OpenGL 4.5
- System Memory  
2 x DDR4 2400 MHz SODIMM, Max. 64GB
- Storage  
2 x SATA ports 3.0 Data transfer rates up to 6.0 Gb/s (600 MB/s)  
1 x mini card socket for mSATA  
1 x M.2 B Key, Type 3042 / 3052 (mSATA / PCIe / USB 3.0 / USB 2.0)
- BIOS  
AMI UEFI BIOS
- Display  
1 x eDP ; optional to VGA or DVI or HDMI
- TPM  
TPM 2.0
- LAN  
1 x Intel GbE I219LM (internal), 4 x Intel 2.5 GbE I225 (internal)
- Audio (OEM)  
High Definition Audio Specification, Support Line-out / Mic-in / Line-in
- Expansion Interface  
1 x Full size Mini PCIe (PCIe / mSATA / USB 3.0 / USB 2.0)  
1 x M.2 B Key, Type 3042 / 3052 (mSATA / PCIe / USB 3.0 / USB 2.0) (Support NVME)  
1 x Nano SIM  
1 x PCIe 16x / 8x / 4x / 1x golden finger

### Expansion Options

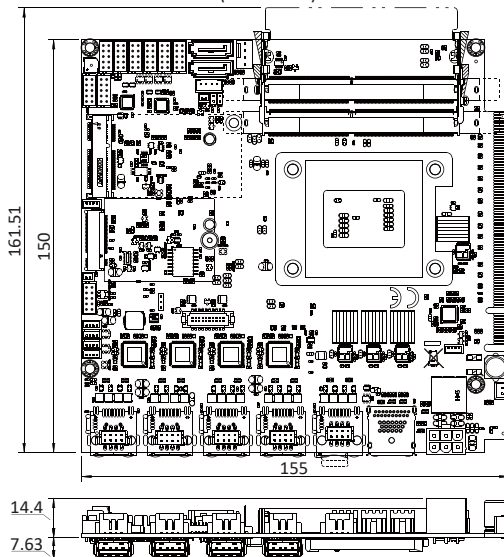
CN064	M.2 B key 2242 to M.2 E Key 2230, WiFi 6 + BT
CN067	M.2 B key 2242 to M.2 B Key 2252, 4G / 5G (3.7V by BOM Control)
CN059	USB to Line-out / Mic- in
CC007	USB to 4 port COM
CIO116G	SMBus to 8DI + 8DO
PW351	1 port PoE PSE
PW352	2 port PoE PSE
PW301	802.3AF / AT PD module
PW205	Wide Range power board (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)

## Features:



- 10th Gen Intel® Comet Lake-S i9 / i7 / i5 / i3 Pentium / Celeron (35W) CPU
- Pre-installed M.2 Hailo-8™ AI Accelerator
- Intel® Q470 chipset
- 2 x DDR4 SODIMM socket, Max. 64GB
- Multiple Independent display: eDP
- 5 x Intel GbE LAN, 4 x USB 3.1, 4 x USB 2.0
- 4 x COM, 1 x Mini PCIe, 1 x PCIe, 1 x M.2, 1 x Nano SIM
- 8DI / 8DO, TPM 2.0, SMBus

## Dimensions: (Unit:mm)



- USB  
4 x USB 3.1 (external) ; 4 x USB 2.0 (internal)
- Serial IO  
4 x RS232 / 422 / 485 (internal) (OEM option to 6 x COM w/o DIO)  
\*COM1, COM2 pin9 5V / 12V (Option)
- GPIO  
Hardware digital Input & Output, 8 x DI / 8 x DO
- SMBus  
1 x SMBus
- WDT  
Hardware Watch Dog Timer, 0~255 sec programmable
- Power Input  
Wide Range +12~36V
- Dimension  
161.51 x 155 mm (Memory at Horizontal DIMM Socket)  
150 x 155 mm (Memory at Vertical DIMM Socket)
- Operation Temperature (100 % CPU Usage)  
-20°C~70°C (Core i7 10700T)
- Operation Humidity  
5~95%, non-condensing
- 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.