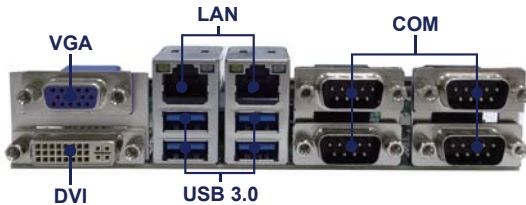


# 3I390AW

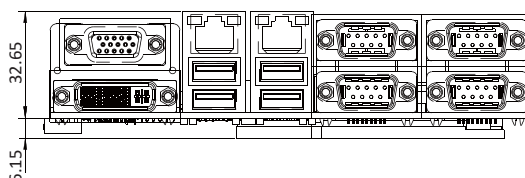
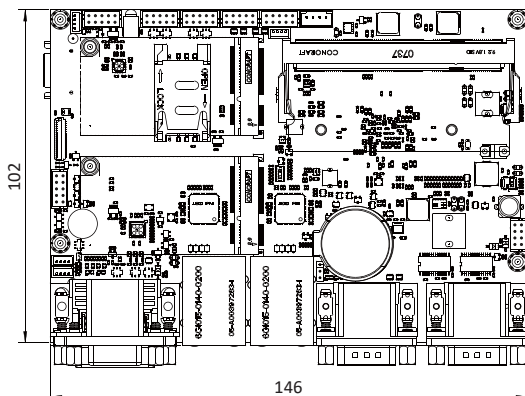
3.5" SBC supports Intel® Apollo Lake Pentium / Celeron / Atom CPU  
VGA, DVI, 2 x Intel Gb Ethernet, 6 x USB,  
8DI / 8DO, 6 x COM, 2 x Mini PCIe, 1 x SIM, SMBus



## Features:

- Intel® Apollo Lake Pentium® N4200 2.5 GHz (Quad Core)  
Celeron® N3350 2.4 GHz (Dual Core)  
Atom™ E3950 2.0 GHz (Quad Core)
- 1 x DDR3L SODIMM socket, Max. 8GB
- Multiple Independent display: VGA & DVI
- 2 x Intel GbE LAN, 4 x USB 3.0, 2 x USB 2.0
- 6 x COM, 8DI / 8DO, 2 x Mini PCIe, 1 x SIM, SMBus
- TPM 2.0 (Optional)

## Dimensions: (Unit:mm)



## Specifications :

- CPU**  
Intel® Apollo Lake Pentium® N4200 2.5 GHz (Quad Core)  
Celeron® N3350 2.4 GHz (Dual Core)  
Atom™ E3950 2.0 GHz (Quad Core)
- MB Chipset**  
Intel® Apollo Lake SoC
- Graphics**  
Intel Gen9 Graphic engine  
DirectX11, OpenGL3.2, OpenCL1.2, Full HW acceleration,  
decode: H.264, MPEG 2 / 4, VC-1, WMV9. Encode: H.264, MPEG2
- System Memory**  
1 x DDR3L 1066 / 1333 MHz SODIMM, Max. 8GB
- 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
- BIOS**  
Insyde UEFI BIOS
- Display**  
1 x DVI, 1 x VGA
- TPM**  
TPM 2.0 (Option)
- LAN**  
2 x Intel GbE (external)
- Audio (OEM)**  
High Definition Audio Specification, Support Line-out / Mic-in / Line-in  
(Option) Two channel Class D Audio Amplifier
- Expansion Interface**  
1 x Full size Mini PCIe (mSATA / USB)  
1 x Full size Mini PCIe (PCIe / USB)  
1 x SIM

### Expansion Module

<b>Converter Card</b>	CN066: Mini PCIe to M.2 E key 2230, WiFi 6 + BT
<b>Mini Card</b>	GPS, 3G / 4G, Wi-Fi, 2 / 4 x LAN, 4 x COM, CANBus, SDI / AHD Video
<b>By Cable</b>	Bluetooth, Digital I/O, 2 / 4 PoE, 4 x USB mini card

- USB**  
4 x USB 3.0 (external) ; 2 x USB 2.0 (internal)
- USB Expansion**  
USB to COM, Mini Card, M.2, Audio board
- Serial IO**  
2 x RS232 / 422 / 485 (external)  
2 x RS232 (external), 2 x RS232 (internal)  
\*COM1, COM2 pin9 5V (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 +9~36V
- Dimension**  
3.5" (146 x 102 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: TIGER, TASK, MIRO 3
- OS Support**  
Windows® 10 IOT (64bit), Ubuntu 16.04.1 above, Fedora 25 above