

# BIADN-IHT Industrial PC



- Onboard Intel® Alder Lake N Processor
- Support triple display: LVDS or eDP, 2 x HDMI®, USB-C
- Support 1 x DDR4 3200 MHz SO-DIMM, up to 16GB
- Support M.2 Hailo-8™ AI Accelerator, up to 26 TOPS (option)
- 2 x GbE LAN
- 2 x USB3.2 Gen1, 1 x USB-C USB3.2 Gen2 , 6 x USB2.0
- 2 x RS232/422/485, 4 x RS232
- 1x M.2 B key B 3042/3052 support USB3.2+PCIe3.0x1 w/ SIM slot
- 1x M.2 key E 2230 support PCIe3.0x1+USB2.0 for WIFI/BT module
- 1x M.2 M key M 2242/2280 support PCIe3.0x1/ SATA for NVMe/ SATA storage
- DC-IN 9-24V, USB-C PD Sink 20V/5A

## Specification

CPU SUPPORT	Intel® Alder Lake-N / Amston Lake series Processor - Intel® Processor N97 - Intel Core i3-N305
MEMORY	1 x 260-pin DDR4-3200Mhz SO-DIMM, up to 16GB
EXPANSION SLOT	1 x M.2 B key 3042/3052 support PCIe3.0 x1 + USB3.2 w/ SIM slot for 4G/5G module 1 x M.2 M Key 2242/ 2280 support PCIe3.0 x1/ SATA for NVMe/ SATA storage 1 x M.2 E key 2230 support PCIe3.0 x1 +USB2.0 for WIFI/BT module
GRAPHICS	Intel® Integrated Graphics, support triple display - 2 x HDMI® connector (4096x2160@24Hz) - 1 x LVDS (1920x1200@60Hz) or 1 x eDP ( 1920*1080@60Hz) - 1 x USB-C connector (4096*2160@60Hz)
AUDIO	Audio Codec: ALC897 + ALC105, support 4 ohm 2W amplifier
LAN	Dual GbE - 2 x Realtek RTL8111H
SUPER I/O CHIP	ITE IT8625E ITE 8764E (support 4COM)
REAR I/O	1 x DC-Jack 2 x HDMI® connector 1 x USB-C connector (support DP Alt mode, USB-C PD sink 20V/5A) 2 x USB2.0 Type A connector 2 x USB3.2 Gen1 Type A connector 2 x RJ45 connectors, support 1G 1 x LINE-out connector

INTERNAL I/O	<p>Expansion slots:</p> <ul style="list-style-type: none"> <li>- 1 x M.2 M key</li> <li>- 1 x M.2 B key w/ SIM Slot</li> <li>- 1 x M.2 E key</li> </ul> <p>SATA:</p> <ul style="list-style-type: none"> <li>- 1 x SATA3 7pin connector</li> <li>- 1 x 1*4 pin SATA power box header</li> </ul> <p>Display:</p> <ul style="list-style-type: none"> <li>- 1 x 2*20 pin LVDS box header</li> <li>- 1 x 1*40 pin eDP box header (opt)</li> <li>- 1 x 1*8 pin LCD backlight control box header (5V/12V)</li> <li>- 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V)</li> </ul> <p>Audio:</p> <ul style="list-style-type: none"> <li>- 1 x 2*5 pin box header for MIC-in, LINE-out, LINE-in</li> <li>- 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker</li> </ul> <p>USB:</p> <ul style="list-style-type: none"> <li>- 2 x 2*5 pin header, support 4 x USB2.0</li> <li>- 1 x 2*10 pin box header, support 2 x USB3.2 Gen1(opt)</li> </ul> <p>Power:</p> <ul style="list-style-type: none"> <li>- 1 x 2*2 ATX connector , support DC-IN 9~24V</li> </ul> <p>Serial Port:</p> <ul style="list-style-type: none"> <li>- 2 x 2*5 pin RS232/422/485 box header (COM5/COM6)</li> <li>- 4 x 2*5 pin RS232 box header (COM1/COM2/COM3/COM4)</li> <li>- 6 x 2*3 pin COM power select header (RI/5V/12V, default is RI)</li> </ul> <p>Others:</p> <ul style="list-style-type: none"> <li>- 1 x buzzer</li> <li>- 1 x 2*5 8-bit DIO pin header</li> <li>- 1 x 1*4 pin CPU Fan header</li> <li>- 1 x 1*3 pin system Fan header</li> <li>- 1 x 1*2 pin clear CMOS header</li> <li>- 1 x 2*3 pin DIO power select header (1.8V/3.3V/5V, default is 3.3V)</li> <li>- 1 x 2*7 front panel header</li> <li>- 1 x 1*4 pin I2C box header</li> <li>- TPM2.0 onboard</li> </ul>
DIMENSION	Thin Mini-ITX, 170 mm x 170 mm x 1.6mm ( W x L )
ENVIRONMENT	0°C ~ 60°C Humidity : 5% ~ 90%
OS SUPPORT	Support Windows 10 IoT Enterprise 21H2/ Winddows 11 IoT Enterprise 24H2 Support Ubuntu 22.04

\*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

