

# 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<br>- Intel® Processor N97<br>- 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<br>1 x M.2 M Key 2242/ 2280 support PCIe3.0 x1/ SATA for NVMe/ SATA storage<br>1 x M.2 E key 2230 support PCIe3.0 x1 +USB2.0 for WIFI/BT module      |
| GRAPHICS       | Intel® Integrated Graphics, support triple display<br>- 2 x HDMI® connector (4096x2160@24Hz)<br>- 1 x LVDS (1920x1200@60Hz) or 1 x eDP ( 1920*1080@60Hz)<br>- 1 x USB-C connector (4096*2160@60Hz)                                    |
| AUDIO          | Audio Codec: ALC897 + ALC105, support 4 ohm 2W amplifier                                                                                                                                                                              |
| LAN            | Dual GbE<br>- 2 x Realtek RTL8111H                                                                                                                                                                                                    |
| SUPER I/O CHIP | ITE IT8625E<br>ITE 8764E (support 4COM)                                                                                                                                                                                               |
| REAR I/O       | 1 x DC-Jack<br>2 x HDMI® connector<br>1 x USB-C connector (support DP Alt mode, USB-C PD sink 20V/5A)<br>2 x USB2.0 Type A connector<br>2 x USB3.2 Gen1 Type A connector<br>2 x RJ45 connectors, support 1G<br>1 x LINE-out connector |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERNAL I/O | Expansion slots:<br>- 1 x M.2 M key<br>- 1 x M.2 B key w/ SIM Slot<br>- 1 x M.2 E key<br>SATA:<br>- 1 x SATA3 7pin connector<br>- 1 x 1*4 pin SATA power box header<br>Display:<br>- 1 x 2*20 pin LVDS box header<br>- 1 x 1*40 pin eDP box header (opt)<br>- 1 x 1*8 pin LCD backlight control box header (5V/12V)<br>- 1 x 2*3 pin LCD power select header (3.3V/5V/12V, default is 3.3V)<br>Audio:<br>- 1 x 2*5 pin box header for MIC-in, LINE-out, LINE-in<br>- 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker<br>USB:<br>- 2 x 2*5 pin header, support 4 x USB2.0<br>- 1 x 2*10 pin box header, support 2 x USB3.2 Gen1(opt)<br>Power:<br>- 1 x 2*2 ATX connector , support DC-IN 9~24V<br>Serial Port:<br>- 2 x 2*5 pin RS232/422/485 box header (COM5/COM6)<br>- 4 x 2*5 pin RS232 box header (COM1/COM2/COM3/COM4)<br>- 6 x 2*3 pin COM power select header (RI/5V/12V, default is RI)<br>Others:<br>- 1 x buzzer<br>- 1 x 2*5 8-bit DIO pin header<br>- 1 x 1*4 pin CPU Fan header<br>- 1 x 1*3 pin system Fan header<br>- 1 x 1*2 pin clear CMOS header<br>- 1 x 2*3 pin DIO power select header (1.8V/3.3V/5V, default is 3.3V)<br>- 1 x 2*7 front panel header<br>- 1 x 1*4 pin I2C box header<br>- TPM2.0 onboard |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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<br>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!