

# AIR-150

## 26 TOPS AI Inference System Intel 13<sup>th</sup> Gen. with Hailo-8 AI

NEW



### Features

- 13th gen. Intel Core i3/i5 up to 14 Watt with 10 Cores
- Empowered by Hailo-8 M.2 AI module up to 26 TOPS
- Compact Fanless 156 x 112 x 60mm dimensions
- Dual 4K lockable HDMI 2.0b, 4096x2160 resolution
- Vertical I/O: 3x COM/1x DIO/2x CANBus/2x LAN/4x USB
- Rich AI toolkits for runtime integration and model deployment
- Flexible expansion with 3x M.2:  
M key 2280 (NVMe storage),  
E key 2230 (Wi-Fi),  
B key 3042 (Hailo AI)
- Suitable for Industrial usage:  
-20~60°C wide temperature and 12-24V wide voltage support

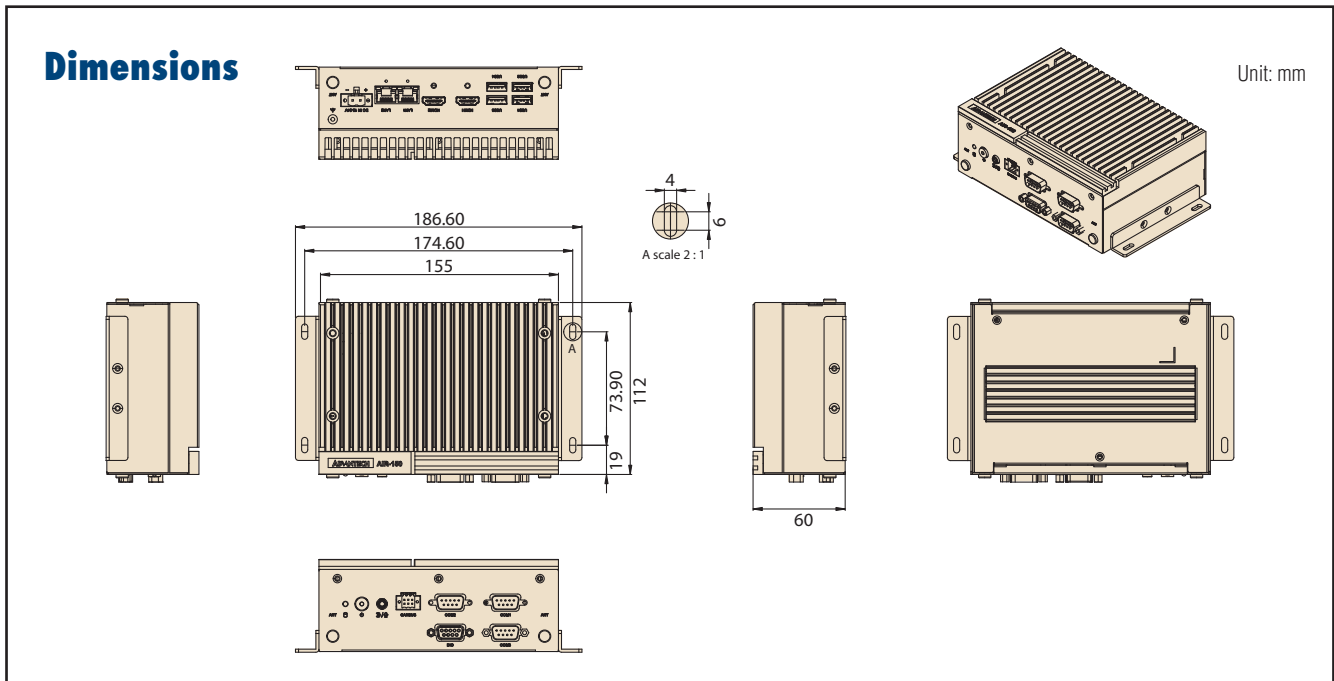
WISE-DeviceOn HAILO EdgeAI SDK LISTED cUL US CE FC

### Specifications

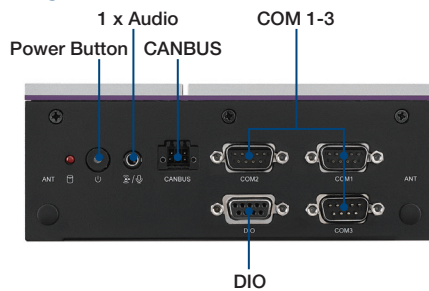
|                          |                            |  |  |
|--------------------------|----------------------------|--|--|
| Processor System         | CPU                        | Core i5-1345UE   | Core i3-1315UE                                     |
|                          | System Chipset             | Integrated in CPU  |  |
| Memory                   | Technology                 | Dual Channel DDR5 5200 MHz 262 pin SO-DIMM   |  |
|                          | Capacity                   | Max. capacity 64GB   |  |
| Graphics                 | Chipset                    | Intel® Iris® Xe Graphics eligible  | Intel® UHD Graphics for 13th Gen Intel® Processors |
|                          | Graphic Engine             | Direct X 12.1, OpenGL 4.6<br>HW Encode: H.265/HEVC, H.264/AVC, VP9, SCC<br>HW Decode: H.265/HEVC, H.264/AVC, VP9, SCC                            |  |
|                          |                            | HDMI   | 2x HDMI 2.0b: 4096x2160@60Hz, Dual Display         |
|                          | Storage                    | SSD/M.2  | SATA Slim<br>M-Key 2280 (SATA, PCIe4 Gen.4 NVMe)   |
| I/O Interface            | LAN1                       | 10/100/1000 Mbps Intel i219 1GbE   |  |
|                          | LAN2                       | 100/1000/2500 Mbps Intel i226 2.5 GbE  |  |
|                          | USB 2.0/USB 3.2            | 1/3  |  |
|                          | Audio                      | 1 x Mic-in / Line-out, Realtek ALC888S HD Audio  |  |
|                          | COM                        | 2 x RS-232/422/485<br>1x RS-485 (COM3)   |  |
|                          | DIO                        | DB9 8 bit, 1 port  |  |
|                          | CANBus                     | 2x3 pin, 2 ports   |  |
| Expansion                | M.2                        | 1 x E-Key 2230 (PCIex1, USB2.0)<br>1 x B-Key 3042/3052 <sup>#1</sup> w/ Nano SIM (PCIex1, USB 3.2) <sup>#2</sup><br>1 x M-Key 2280 (SATA, PCIe4) |  |
| Trusted Platform Module  | TPM 2.0                    | SLB9670XQ2.0 (on board)  |  |
| Power Requirement        | Power Input Voltage        | 12-24 V <sub>oc</sub>  |  |
|                          | Power Type                 | ATX/AT mode (Default ATX)  |  |
| Power Consumption        | Typical (OS idle mode)     | 17.9W  |  |
|                          | Max. (Full loading)        | 45.81W   |  |
| Physical Characteristics | Mounting                   | Wall Mounting/Din-Rail   |  |
|                          | Dimensions (W x H x D)     | 156 x 112 x 60 mm  |  |
|                          | Weight                     | 1.3 kg   |  |
| Environment              | Operating Temperature      | -20 ~ 60 °C, with 0.7m/s air flow  |  |
|                          | Storage Temperature        | -40 ~ 85 °C (-40 ~ 185°F)  |  |
|                          | Relative Humidity          | 95% @ 40 °C (non-condensing)   |  |
|                          | Vibration during Operation | 3 Grms, IEC60068-2-64, random, 5-500 Hz, 1hr/axis (with Wall Mount)  |  |
|                          | Shock during Operation     | 30 G, IEC-60068-2-27, half sine, 11 ms duration (with Wall Mount)  |  |
| Software Support         | Microsoft Windows          | Windows 10/ Windows 11 IoT 64-bit  |  |
|                          | Linux                      | Ubuntu 22.04   |  |
| Certification            | EMC                        | CE/FCC Class B, Heavy Industry 61000-6-4, 61000-6-2, CCC, BSMI   |  |
|                          | Safety                     | UL, CB, CCC, BSMI  |  |

#1 The M.2 B key default support 3042/2242, 3052 is support by project.

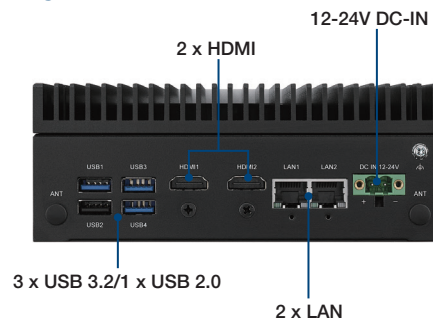
#2 For the AIR-150-S24A1 & AIR-150-S44A1, the M.2 B-Key 3052 slot is by default bundled with the Hailo AI module.



### Front View



### Rear View



### Ordering Information

| Part No.      | CPU                  | M.2 B-Key 3042             | Memory     | M-Key 2280 | E-key 2230 | Display  | LAN             | USB                | CANBus | DIO | RS-232/422/485 | SATA Slim | Power Input | Operating Temp. | Audio               |
|---------------|----------------------|----------------------------|------------|------------|------------|----------|-----------------|--------------------|--------|-----|----------------|-----------|-------------|-----------------|---------------------|
| AIR-150-S44A1 | Intel Core i5-1345UE | Built-in Hailo-8 AI module | UP to 64GB | 1          | 1          | 2 x HDMI | 2 (1GbE/2.5GbE) | 3 x 3.2<br>1 x 2.0 | 2      | 1   | 3              | 1         | 12-24 Vdc   | -20 ~ 60 °C     | Mic-in/<br>Line-out |
| AIR-150-S24A1 | Intel Core i3-1315UE |                            |            |            |            |          |                 |                    |        |     |                |           |             |                 |                     |
| AIR-150-S24B1 | Intel Core i3-1315UE |                            |            |            |            |          |                 |                    |        |     |                |           |             |                 |                     |
| AIR-150-S44B1 | Intel Core i5-1345UE |                            |            |            |            |          |                 |                    |        |     |                |           |             |                 |                     |

\* System Made in Taiwan

### Packing List

| Part Number    | Description                          |
|----------------|--------------------------------------|
| -              | 1 x AIR-150 unit                     |
| 1960052226N004 | 2 x Wallmount                        |
| 2006R15000     | 1 x User manual (Simplified Chinese) |
| 36WSWPD0BUND11 | 1 x WISE-DeviceOn Package            |
| 1652000099     | 1x Phoenix connector counterpart     |
| 1652008233-01  | 1x Canbus counterpart                |

### Optional Items

| Part Number    | Description                          |
|----------------|--------------------------------------|
| XARK-ADP-90MDH | 90W Power Adaptor (19V DC in)        |
| 1700001524     | Power Cable 3-pin 180cm, USA type    |
| 170203183C     | Power Cable 3-pin 180cm, Europe type |
| 170203180A     | Power Cable 3-pin 180cm, UK type     |
| 1700008921     | Power Cable 3-pin PSE Mark 183cm     |
| AMK-R006E      | DIN-Rail Mounting for EI-53          |

### Embedded OS

| Part Number    | Description  |
|----------------|--|
| 20706WX1VS0082 | Win 10 IoT 64 bit w/ WISE Device-On Core i3/i5 SKU |
| 20706U22DS0036 | Ubuntu Desktop 22.04 LTS 64bit                     |
| 20706WLV1S0018 | Win 11 IoT 64 bit w/ WISE Device-On Core i3/i5 SKU |