

AIR-150

26 TOPS AI Inference System Intel 13th 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

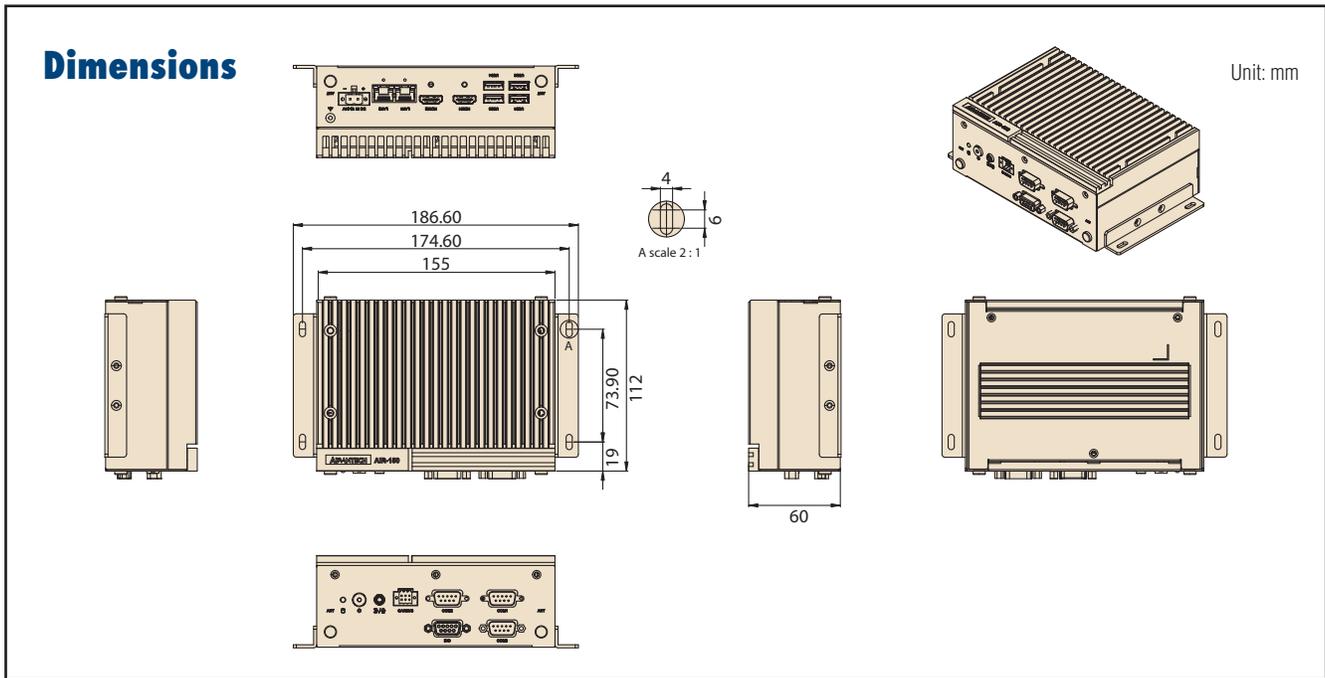
WISE-DeviceOn HAILO EdgeAI SDK LISTED cUL US CE FC

Specifications

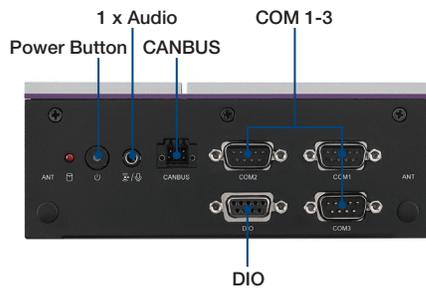
| | | | |
|--------------------------|----------------------------|--|--|
| Processor System | CPU | Core i5-1345UE | Core i3-1315UE |
| | System Chipset | Integrated in CPU | |
| Memory | Technology | Dual Channel DDR5 5200 MHz 262 pin SO-DIMM | |
| | Capacity | Max. capacity 64GB | |
| Graphics | Chipset | Intel® Iris® Xe Graphics eligible | Intel® UHD Graphics for 13th Gen Intel® Processors |
| | Graphic Engine | Direct X 12.1, OpenGL 4.6 HW Encode: H.265/HEVC, H.264/AVC, VP9, SCC 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 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 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) 1 x B-Key 3042/3052 ^{#1} w/ Nano SIM (PCIex1, USB 3.2) ^{#2} 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 _{oc} | |
| | 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.

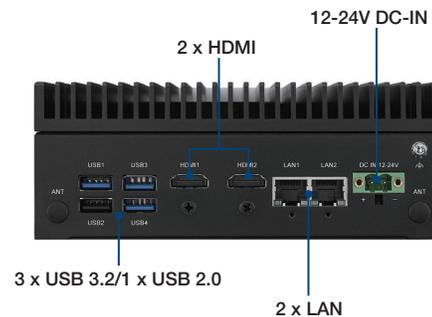
#2 For the AIR-150-S24A1 & AIR-150-S44A1, the M.2 B-Key 3052 slot is by default bundled with the Hailo AI module.



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 1 | UP to 64GB | 1 | 1 | 2 x HDMI | 2 (1GbE/2.5GbE) | 3 x 3.2 1 x 2.0 | 2 | 1 | 3 | 1 | 12-24 Vdc | -20 ~ 60 °C | Mic-in/ 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 |

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