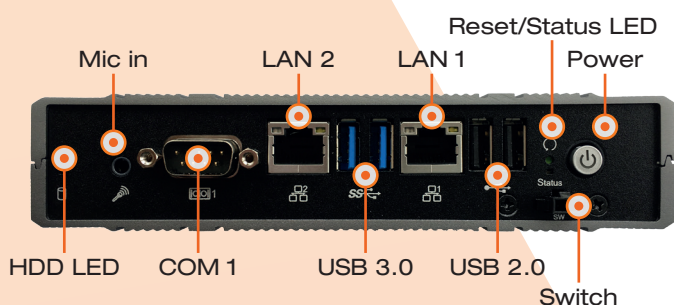




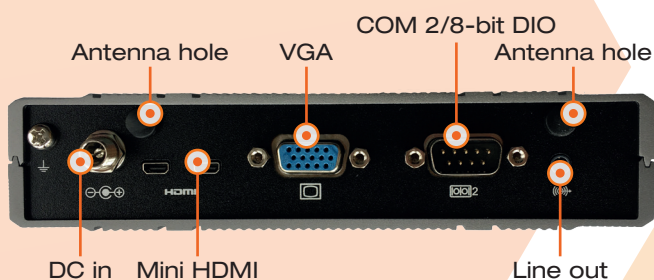
FEATURES:

- Palm-sized and Fanless Embedded Industrial PC
- 4GB/8GB DDR4-2400 memory onboard
- Triple independent displays: 1 VGA/DVI-D + 2x micro-HDMI / mini-DP
- Supports 1 Mini PCIe and 2 M.2 slots
- Rich I/O ports: 2 Intel GbE, 2 COM, 4 USB
- Extended operating temperature: -20 to 60°C

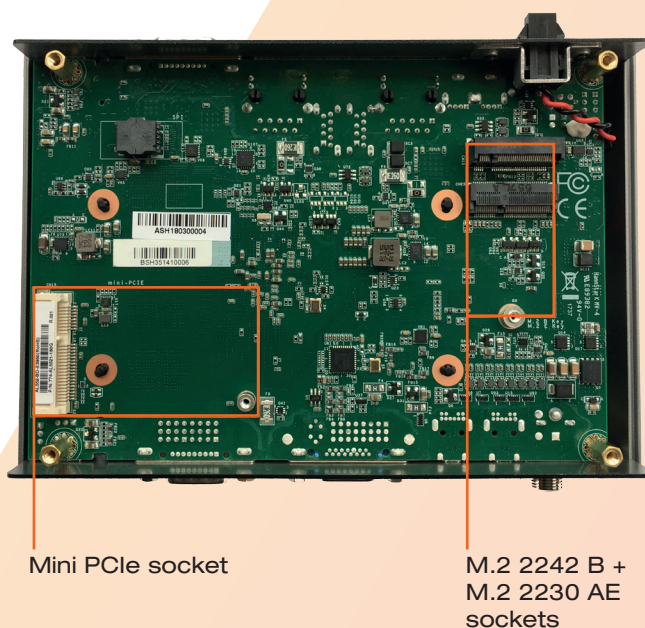
FRONT:



REAR:



INTERNAL:



Equipped with a quad-core Apollo Lake x7-E3950 Atom SoC – 6th generation processor with support for up to 3 displays and high-performance graphics – the ECD800-AL is a tiny, fanless system designed for use with Windows 10 or Linux.

The ECD800-AL is perfect for a broad range of tasks in industrial, signage, POS and IoT applications.

Direct Insight offers full integration services and our in-house engineering team can help to configure and provision your customer-ready device, including reduced cost Windows 10 IoT Enterprise Entry LTSC licenses.

SYSTEM

Processor:

- Intel Atom® Processor E3900 Series, BGA 1296
- Intel Atom® x7-E3950 Processor, Quad Core, 2M Cache, 1.6GHz (2.0GHz), 12W
- Intel Atom® x5-E3940 Processor, Quad Core, 2M Cache, 1.6GHz (1.8GHz), 9W*
- Intel Atom® x5-E3930 Processor, Dual Core, 2M Cache, 1.3GHz (1.8GHz), 6W*
- Intel® Pentium® Processor N4200, Quad Core, 2M Cache, 1.1GHz (2.5GHz), 6W*

Memory:

- 4GB/8GB Memory Down
- Dual Channel LPDDR4 2400MHz

BIOS:

- Insyde SPI 128Mbit

GRAPHICS

Controller:

- Intel® HD Graphics

Feature:

- OpenGL 4.2, Direct X 11.1, OpenCL 1.2, OGL ES 3.0
- HW Decode: H.264, MPEG2, VC1, VP8, H.265, MPEG4, MVC, VP9, WMV9, JPEG/MJPEG
- HW Encode: H.264, MPEG4, VP8, H.265, MVC

Display:

- 1x VGA (DVI-D*)
- 2x micro-HDMI (mini-DP*)

Triple Displays:

- VGA + 2x HDMI
- DVI-D + 2x DP*

EXPANSION

Interface:

- 1x Full-size Mini PCIe (PCIe/USB/SATA)
- 1x M.2 (2242 B Key) (PCIe/USB/SATA)
- 1x M.2 (2230 AE Key) (PCIe/USB)

AUDIO

Audio Codec:

- Realtek ALC262

ETHERNET

Controller:

- 2 x Intel® I210AT PCIe(10/100/1000Mbps)

LED

Indicators:

- 1 x Power LED
- 1 x HDD LED

FRONT I/O

Ethernet:

- 2 x GbE (RJ-45)

Serial:

- 1 x RS-232/422/485 (DB-9)

USB:

- 2 x USB 3.0 (type A)
- 2 x USB 2.0 (type A)

Audio:

- 1 x Mic-in

Buttons:

- 1 x Power Button

REAR I/O

Serial:

- 1 x RS-232/422/485 (DB-9) (8-bit DIO available upon request)

Display:

- 1 x VGA/DVI-D
- 2 x Mini-DP/Micro-HDMI

Audio:

- 1 x Line-out

Wi-Fi Antenna:

- 2 x Wi-Fi Module Antenna Hole

Switch:

- 1 x Power Switch (2-pin)

WATCHDOG TIMER

Output & Interval:

- System Reset, Programmable via Software from 1 to 255 Seconds

POWER

Type:

- Wide Range 9~36V

Connector:

- DC Jack

OS SUPPORT

- Windows 10 IoT Enterprise "Entry" (64-bit)
- Ubuntu 16.04 64-bit (Intel graphic driver available)
- Linux Yocto Project (64-bit)

MECHANISM

Construction:

- Aluminum

Mounting:

- Wall/VESA/DIN Rail Mount (available upon request)

Dimensions:

- (W x H x D) 161mm x 35.1mm x 108.2mm

Weight:

- 700g

ENVIRONMENT

Operating Temperature:

- -20 to 60°C

Storage Temperature:

- -40 to 85°C

Relative Humidity:

- 10 to 90% RH (non-condensing)

STANDARDS & CERTIFICATIONS

Shock:

- Operating: 3G, 11ms
- Non-Operating: 5G, 11ms

Vibration:

- Operating: Random 5~500Hz, IEC68-2-64 (3G)
- Non-Operating: Sine 10~500Hz, IEC68-2-6 (3G)

*build to order option

Direct Insight is an award-winning Microsoft Windows Embedded Gold Partner, and so our products are fully tested for use with Windows Embedded and Windows 10 /IoT. Professional, local image creation and support services are available.

