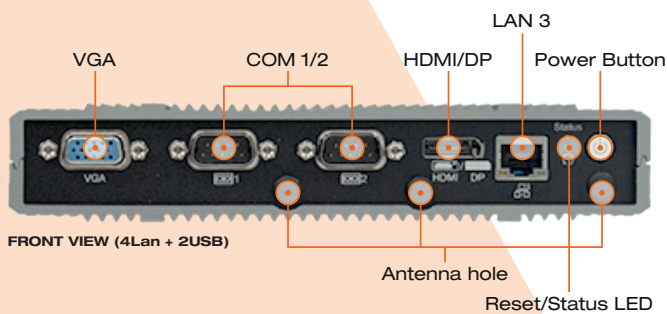




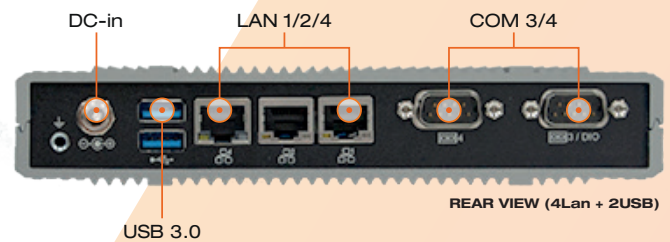
FEATURES:

- Compact and Fanless Embedded System
- DDR3L memory onboard + 1 SODIMM up to 8GB
- Displays: 1 DP/HDMI auto-detection + 1 DP or 1 VGA
- Supports 2 Mini PCIe and 1 M.2 slots
- Rich I/O ports: up to 4 Intel GbE, 4 COM, 4 USB
- Extended operating temperature: -40 to 70°C
- Windows 7/10/Linux supported
- Cableless use case capable

FRONT:



REAR:



Twice as powerful as previous Atom-class processors, Intel Apollo Lake combines performance and low-power, permitting small footprint fanless operation thanks to a dual or quad-core x5-E3930 or x7-E3940/50. The ECD700-AL is a Windows 10-ready tiny, embedded industrial PC system with huge processing power, capable of playing multiple video streams and driving multiple graphical and touch screen displays. The ECD700-AL is perfect for a broad range of embedded and industrial PC applications.

As well as a broad range of storage options thanks to onboard eMMC, plus an internal 2.5" drive bay as well as mSATA, miniPCIe and M.2 slots, the ECD700-AL combines 2 or 4GB of DDR3L onboard with a SODIMM slot for maximum flexibility.

There are 4x COM ports, one of which may be repurposed as 8 bits of GPIO, 2 or 4 GB Ethernet ports, 2 or 4 USB 3.0 ports, and HDMI/Displayport plus VGA (or second DP) output.

VESA and wall mounting kits are available, and a full industrial version is rated to -40°C making it suitable for outdoor and industrial applications.

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
- Intel® Celeron® Processor N3350, Dual Core, 2M Cache, 1.1GHz (2.4GHz), 6W
- Intel® Celeron® Processor J3355, Dual Core, 2M Cache, 2.0GHz (2.5GHz), 10W
- Intel® Celeron® Processor J3455, Quad Core, 2M Cache, 1.5GHz (2.3GHz), 10W
- Memory:**
- 2GB/4GB/8GB Memory onboard - Total Memory up to 8GB
- One 204-pin SODIMM up to 8GB
- BIOS:**
- Insyde SPI 128Mbit (supports UEFI/Legacy mode)

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:**
- 1 x DP/HDMI Auto-detection (DP support 4k/HDMI support 1080p)
- 1 x DP or 1 x VGA
- HDMI: resolution up to 3840x2160 @ 30Hz
- DP: resolution up to 4096x2160 @ 60Hz
- GA: resolution up to 1920x1200 @ 60Hz
- Dual Displays:**
- DP/HDMI + VGA or DP/HDMI + DP

STORAGE

Internal:

- Support EMMC up to 8G/16GB/32GB/64GB (optional)
- 1x 2.5" SATA bay (7mm SSD)

EXPANSION

Interface:

- 1 x Full-size mSATA (SATA/LPC)
- 1 x Full-size Mini PCIe (USB2.0/reset/nano-SIM)
- 1 x M.2 (2230 E Key) (PCIe/USB2.0)

ETHERNET

Controller:

- 2 or 4 x Intel® I210IT PCIe (10/100/1000Mbps)

LED

Indicators:

- 1 x Power LED
- 1 x Status LED

FRONT I/O

Ethernet:

- 1 x GbE (RJ-45) (configuration options)
- Serial:**
- 3 x RS-232/422/485 (DB-9) (8-bit DIO available upon request)
- Display:**
- 1 x DP/HDMI combo (auto-detection)
- Buttons:**
- 1 x Power Button
- 1 x Reset Button
- Antenna Holes:**
- 3 x Wi-Fi antenna holes

REAR I/O

Ethernet:

- 2 or 3 x GbE (RJ-45) (configuration options)
- Serial:**
- 1 x RS-232/422/485 (DB-9)
- Display:**
- 1 x DP or 1 x VGA (configuration options)
- USB:**
- 2 or 4 x USB 3.0 (type A) (configuration options)

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 (UEFI ONLY)

Microsoft:

- Windows 10 IoT (64-bit)
- Windows 7 (32/64-bit) Project support

Linux:

- Linux

MECHANISM

Construction:

- Aluminium + Metal

Mounting:

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

Dimensions:

- (W x H x D) 180mm x 33mm x 121.2mm

Weight:

- 700g

ENVIRONMENT

Operating Temperature:

- -20 to 60°C
- -40 to 70°C

Storage Temperature:

- -40 to 85°C

Relative Humidity:

- 5 to 95% RH (non-condensing)

STANDARDS & CERTIFICATIONS

Certification:

- CE, FCC class A