FEATURES:
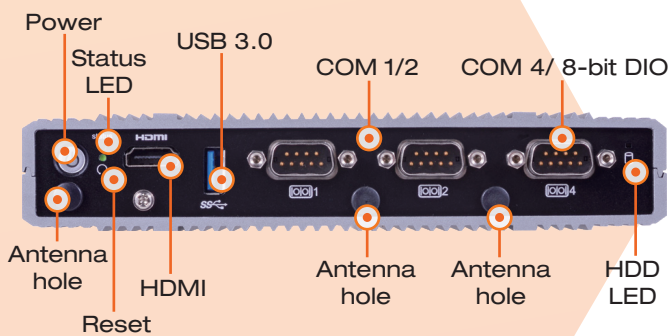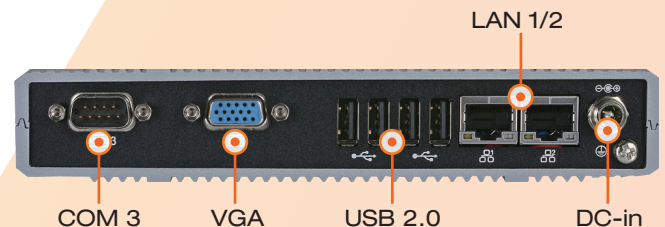
- 4GB/2GB DDR3L ECC onboard

- 1 mSATA, eMMC (optional)

- 1x 2.5" SATA drive bay

- Supports Wi-Fi, 3G, and GPRS application

- Dual display support: HDMI + VGA

FRONT:

Power

Status LED

USB 3.0

COM 1/2

COM 4/ 8-bit DIO

Antenna hole

HDMI

Reset

Antenna hole

Antenna hole

HDD LED

REAR:

LAN 1/2

COM 3

VGA

USB 2.0

DC-in

Equipped with a single, dual or quad-core Bay Trail Atom E3815, E3825 or E3845 – the first genuine single chip Atom with unparalled low-power performance – the ECD700 is a Windows 8 friendly tiny, fanless system with huge processing power, capable of playing multiple video streams and driving multiple graphical and touch screen displays. The ECD700 is perfect for a broad range of Automotive and Industrial applications.

PROCESSOR SYSTEM

- Intel® AtomTM/Intel® Celeron® processors (BGA 1170 packaging technology)
  - Intel® AtomTM E3845, Quad Core, 2M Cache, 1.91GHz, 10W
  - Intel® AtomTM E3825, Dual Core, 1M Cache, 1.33GHz, 6W
  - Intel® Celeron® J1900, Quad Core, 2M Cache, 2GHz (2.41GHz), 10W
  - Intel® Celeron® N2807, Dual Core, 1M Cache, 1.58GHz (2.16GHz), 4.3W

MEMORY

- 4GB/2GB DDR3L ECC onboard (-E45/-E25)
  4GB/2GB DDR3L non-ECC onboard (-J19/-N28)
- Supports DDR3L 1333MHz (-E45/-J19/-N28)
  Supports DDR3L 1066MHz (-E25)
- Supports single channel memory interface

GRAPHICS

- Intel® HD Graphics
- Display ports: 1 HDMI, 1 VGA or 1 DVI-I*
- HDMI, DVI: resolution up to 1920x1080 @ 60Hz
- VGA: 24-bit, resolution up to 2560x1600 @ 60Hz

STORAGE

- 1 2.5" SATA drive bay
  - SATA 2.0 port with data transfer rate up to 3Gb/s
- 1 mSATA module via a Mini PCIe slot
- Supports 4GB, 8GB, 16GB and 32GB eMMC onboard*

ETHERNET

- 2 Intel® I210 PCI Express Gigabit Ethernet controllers
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

COM

- 4 DB-9 ports
  - 3 DB-9 ports supports RS232/422/485 COM port
  - 1 DB-9 port supports RS232/422/485 COM or 8-bit DIO

EXPANSION

- 3 Mini PCIe slots
  - 2 slots for communication
    : One half size slot supports PCIe, USB, and LPC signals for Wi-Fi module or LPC module
    : One full size slot supports PCIe, USB, and 3G signals for 3G or GPRS module
  - 1 full size slot for storage
    : Supports mSATA module
- 1 SIM card socket
- 1 microSD socket*

DIO

- 1 8-bit DIO via the DB-9 port

TRUSTED PLATFORM MODULE (TPM)*

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

I/O PORTS

- Front Panel
  - 3 DB-9 serial ports
    : supports RS232/422/485
    : One of the ports supports 8-bit DIO
  - 1 USB 3.0 (Type A) port
  - 1 HDMI port
  - 3 Wi-Fi antenna holes
  - 1 status LED
  - 1 HDD LED
  - 1 reset button
  - 1 power button
- Rear Panel
  - 1 DB-9 serial port
    : supports RS232/422/485
  - 1 VGA port; or 1 DVI-I port*
  - 4 USB 2.0 (Type A) ports
  - 2 RJ45 LAN ports
  - 1 9~36V DC-in jack

POWER

- Power input voltage: 9~36V DC-in jack

ENVIRONMENT

- Temperature
  - Operating: -20°C~70°C (SSD/mSATA)
  - Operating: 0°C~50°C (HDD)
  - Storage: -20°C~85°C
- Operating Vibration
  - MIL-STD-810F 514-5C-2 (SSD/mSATA)
  - MIL-STD-810F 514-5C-1 (HDD)
- Operating Shock
  - Half sine wave 15G, 11ms, 3 shock per axis (SSD/mSATA)
  - Half sine wave 3G, 11ms, 3 shock per axis (HDD)

CONSTRUCTION

- Aluminum + metal aluminum

MOUNTING

- Wall/VESA/DIN Rail mount
  - Mounting brackets and screws*

DIMENSIONS

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

WEIGHT

- 800g

OS SUPPORT

- Windows 7, WES 7, Windows 8, WES 8, Windows 8.1
- Windows 10 / IoT
- Linux (Distribution available upon request)

WATCHDOG TIMER

- Watchdog timeout programmable via software from 1 to 255 seconds

CERTIFICATION

- CE
- FCC Class B
- RoHS

* Optional and is not supported in standard model. Please contact your sales representative for more information.