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Main Features

- Onboard Intel® Atom™ processor E3826 dual core, 1.46GHz
- 1 x HDMI display
- 1 x Intel® I210AT GbE LAN ports; support WoL and PXE
- 4 x USB 2.0
- 3 x COM ports with RS232, each port only have Tx/Rx/GND
- 3 x Optional interface for optional Wi-Fi/3.5G/LTE modules
- Support -5~55 degree C extended operating temperature
- Support 12V DC input

Product Overview

Powered by the latest generation of Intel® Atom™ processor E3826 (formerly codenamed "Bay Trail-I"), NISE 50C presents intelligent PC-based controller and IoT gateway for factory automation. Up to 2G onboard DDR3L memory, The NISE 50C support operating temperature from -5 up to 55 degree C with typical DC input 12V. The NISE 50C has high integration ability with optional mini-PCIe module and 3 x COM ports which makes it a reliable connection with devices in factory automation applications, IoT applications (with optional Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232). NISE 50C is definitely the top choice for M2M intelligent system as a factory automation controller and gateway.

Specifications

CPU Support

- Onboard Intel® Atom™ processor E3826 Dual Core, 1.46GHz
- Support Intel® Atom™ E3800 processor family from Single Core E3815, Dual Core E3825/E3826/E3827 and Quad Core E3845 with difference SKUs

Main Memory

- Onboard 2GB DDR3L 1066/1333 RAM, un-buffered and non-ECC, max up to 2GB

Display Option

- 1 x HDMI display

I/O Interface-Front

- ATX power on/off switch
- 1 x Wi-Fi/1 x GSM LEDs
- 1 x SIM card holder
- 1 x Intel® I210AT GbE LAN ports; support WoL and PXE
- 1 x HDMI display output
- 4 x USB 2.0 (500mA per each)
- 2 x Antenna Holes for optional Wi-Fi/3.5G antenna

I/O Interface-Rear

- 3 x DB9, only support RS232 Tx/Rx/GND single
- 1 x Line-out
- Support 12V DC INPUT

I/O Interface - Internal

- 4 x GPI and 4 x GPO (5V, TTL type)
- 1 x DB9, only support RS232, Tx/Rx/GND single

Storage Device

- Onboard 16GB EMMC

Expansion Slot

- 3 x mini-PCIe socket for optional Wi-Fi/3.5G modules

Power Requirements

- Power input: 12Vdc
- 1 x optional 12V, 60W power adapter

Support OS

- Windows 8.1
- Windows Embedded Standard 8
- Windows 10 IoT core
- Android 4.4

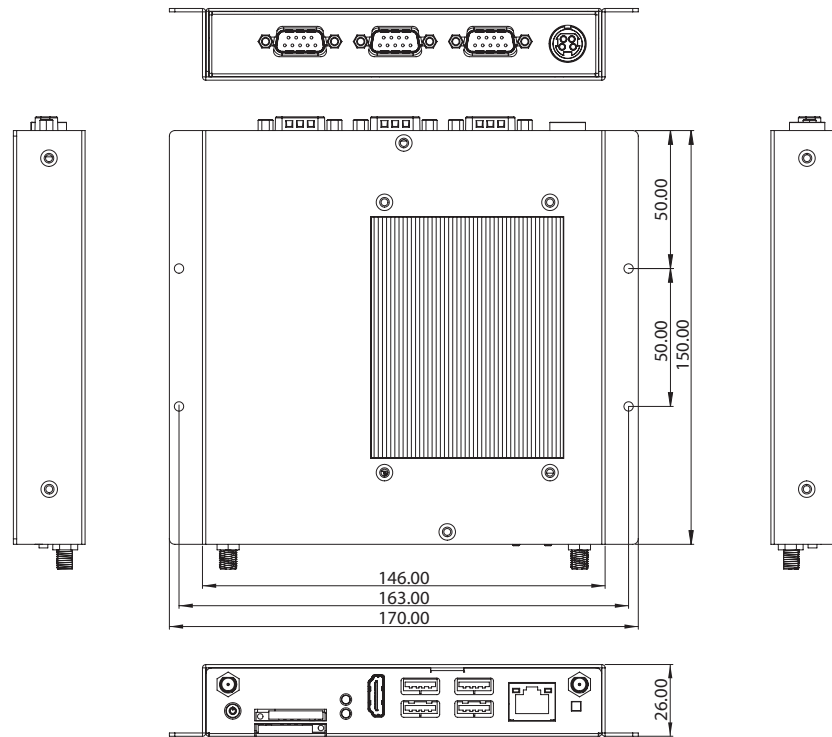
Dimensions

- 146mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket

Construction

- Aluminum and metal chassis with fanless design

Dimension Drawing



Environment

- Operating temperature:
Ambient with air flow: -5°C to 55°C
(according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 75°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
 - EMMC: 50G, half sine, 11ms, IEC60068-27
- Vibration protection w/ EMMC condition:
 - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

Certifications

- CE
- FCC Class A

Ordering Information

- **NISE 50C (P/N: 10J00005001X0)**
Intel® Atom™ processor E3826 Dual Core fanless system
- **12V, 60W AC/DC power adapter w/o power cord**
(P/N: 7400060017X00)