

Microsoft
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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 WiFi/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 on-board 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

- On-board 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 Wifi/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 WiFi/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

- On-board 16GB EMMC

Expansion Slot

- 3 x Mini-PCIe socket for optional WiFi/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

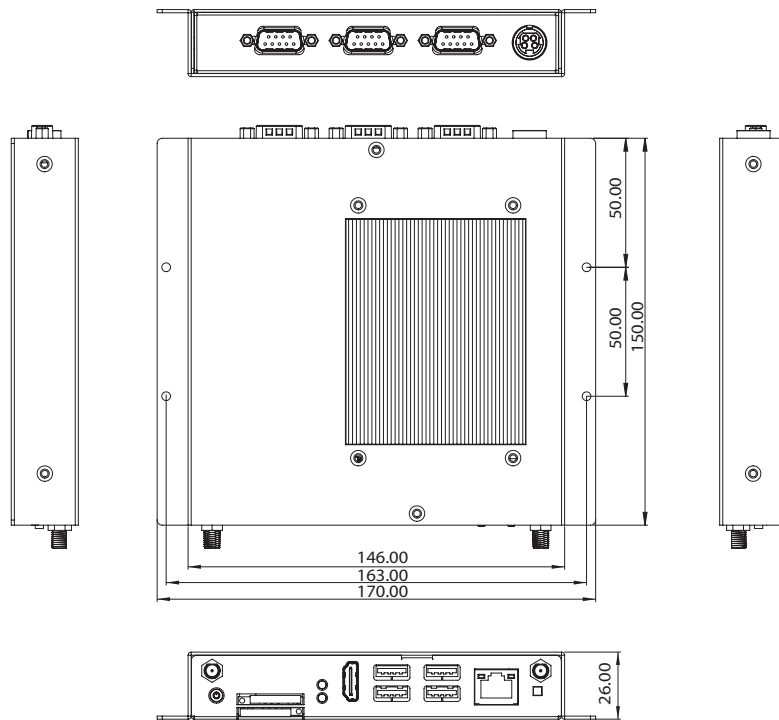
Construction

- Aluminum and Metal Chassis with fanless design

Environment

- Operating Temperature:

Dimension Drawing



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)