NISE 103





Main Features

- On-board Intel® Atom™ D425 Processor, 1.8 GHz
- Intel® ICH8M chipsets
- Dual Intel 10/100/1000 Mbps LAN Ports
- 4 x USB2.0
- 1 x RS232/ 422/ 485 and 3x RS232

- 1 x Mini PCle with Two Antenna Holes and One SIM Card Holder
- 1 x DB15 Digital Input & Output
- Support +12V DC Power Input
- Supports ATX Power Mode, WOL, LAN Teaming and PXE Function

Product Overview

Designed with Intel® D425 1.8 GHZ processor and ICH8M embedded chipset and 12V DC input to take a low power consumption advantage, NISE 103 is a compact fanless industrial computing housed in a size of 185mm x 131mm x 54mm. The NISE 103 supports three RS232, one RS232/422/485, two 10/100/1000 LAN port, four USB ports, one digital I/O, one VGA display, audio jack (speaker-out, Mic-in) and one external CF card socket. It is also a wireless-ready platform which has mini-PCIe socket and SIM card holder on board to support optional GSM wireless module or Wi-Fi module (default). EZ Controller, NISE 103 has a digital I/O port which offers 8X isolated digital input/output channels.

With isolation protection of 2,500V DC, and dry contact support, NISE103 can be applied to industrial and building automation applications. With rich IO connection in palm-sized system, NISE103 is an ideal fanless system for gate control, public information, self-service system, POS, Kiosk, low-power budget devices, and transportation applications etc.

Specifications

CPU Support

- On-board Intel® Atom™ D425 processor, 1.8 GHz
- Intel® ICH8M chipsets

Main Memory

 1 x DDR3 SO-DIMM sockets, single channel, support up to 2GB DDR3 667/800 SDRAM, un-buffered and non-ECC

I/O Interface-Front

- ATX power on/off switch
- HDD access/ power status LEDs
- 3 x COM ports

COM2: RS232/422/485 COM3& COM4: RS232

- 2 x USB2.0 pocrt
- Audio jack (speaker-out, Mic-in)
- 2 x Antenna holes

I/O Interface-Rear

- 1 x VGA
- COM1: 1x RS232 • 2 x Intel® GbE LAN port

- 2 x USB2.0 port
- +12V DC power input
- 1 x DB15 male digital input & output

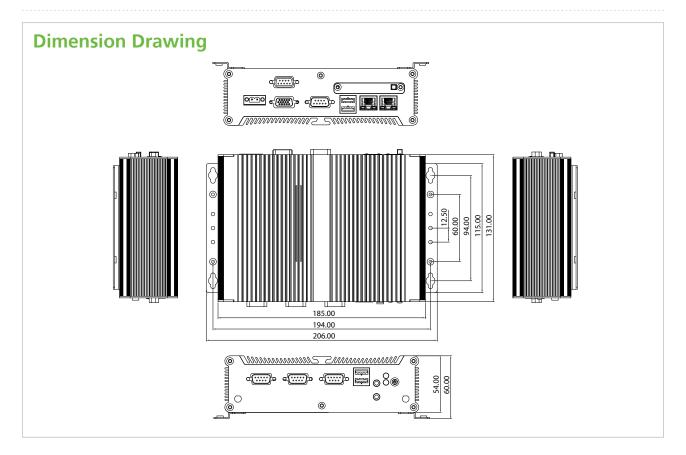
Digital Input & Output

- 4 x Digital Input (Source type)
 - Input Voltage (Dry Contact):
 - Logic 0: Close to GND
 - Logic 1: Open
 - Input Voltage:
 - Logic 0: 3V max
- Logic 1: +5V ~ +30V • 4x Digital Output (Sink type)
- Output Voltage: 3.6V ~ 5V
- Sink current: 200 mA max. per channel

Device

- 1 x 2.5" HDD driver bay
- 1 x External CF Socket
- 1 x SATA DOM





1 x mini-PCle socket
 Default: support optional Wi-Fi module
 Option: support optional 3.5G module

Power Requirements

- DC to DC power designed for on-board support of +12V DC
- 1 x optional 12V, 60W power adapter

Dimensions

• 185mm (W) x 131mm (D) x 54mm (H) (7.28" x 5.2" x 2.13")

Construction

• Aluminum chassis with fanless design

Environment

• Operating temperature:

Ambient with air flow: -5°C ~ 55°C

(According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)

- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% to 93% (non-Condensing)
- Shock protection: 20G, half sine, 11ms, IEC60068-2-27
- Vibration protection

Random: 0.5Grms @5~500 Hz according to IEC68-2-64 Sinusoidal: 0.5Grms @5~500 Hz according to IEC68-2-6

Certifications

- CE approval
- FCC Class A

Ordering Information

Barebone

• NISE 103 (P/N: 10J00010300X0)
Intel® Atom™ D425 Fanless System

 12V, 60W AC/ DC power adapter w/o power cord (P/N: 7400060013X00)

COM Fanless Compute