



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 PCIe with Two Antenna Holes and One SIM Card Holder
- ♦ 1 x DB15 Digital Input & Output
- ♦ On-board DC to DC Power Designed to 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. 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 port
- ♦ Audio jack (speaker-out, Mic-in)
- ♦ 2 x Antenna holes

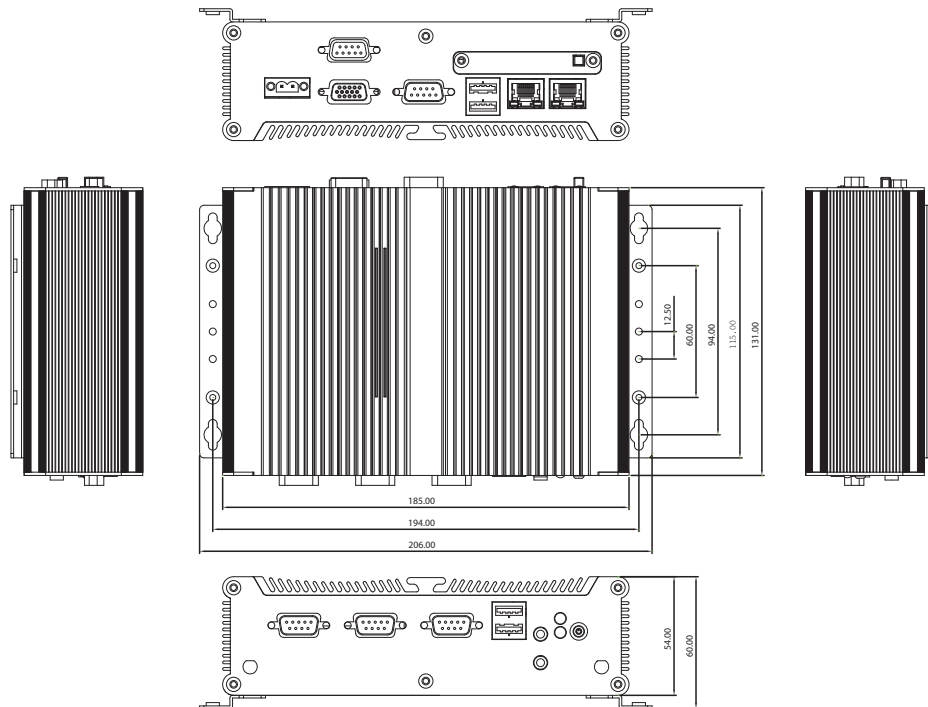
I/O Interface-Rear

- ♦ 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

Dimension Drawing



Device

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

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)

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:7400060008X00)**