



Main Features

- On-board Intel® Atom™ N270 Processor, 1.6GHz
- Intel® 945GSE chipsets
- Dual 1000/100/10 Mbps LAN ports
- 4 x USB2.0/VGA/Parallel port
- 2 x RS232 and 2 x RS232/422/485
- Support 16V to 30V DC Power Input
- Support ATX power mode and PXE/ WOL
- One Mini-PCIe Socket
- One PCI Expansion Slot

Product Overview

Integrated with Intel® Atom™-based N270 1.6GHz processor and 945GSE embedded chipset, NISE 2010 is an energy efficient solution in a lightweight system, featuring the performance and reliable operation of industrial grade non-stop system design.

NISE 2010 features an on-board 1.6 GHz Intel® Atom™ N270 processor with 945GSE chipset. The entire system consumes less than 25 watts power making the operating both energy-efficient and cost effective. Coupled with its four serial ports (two support RS422/485 with auto-flow control feature), dual 10/100/1000 LAN ports, four USB ports and one external CF socket, the NISE 2010 is also equipped with one mini-PCIe Socket and one PCI slot for expansion needs. Wide range of DC input still remain in NISE 2000 series from 16~30V DC input.

With guaranteed long product life cycle, it makes the NISE 2010 the most ideal model for embedded vertical markets including factory automation, access control, machinery control, equipment control, outdoor advertising systems, and self-service system such as vending machine, ticketing kiosks and POS.

Specifications

Main Board

- NISB2001
- On-board Intel® Atom™ N270, 1.6GHz speed, 667MHz FSB

Chipset

- Intel® 945GSE
- Intel® ICH7M

Main Memory

- 1 x DDR2 SO-DIMM sockets, single channel, support up to 2GB DDR2 400/533 SDRAM, unbuffered, non-ECC

Expansion

- Supports one 32-bit/33MHz PCI card (Max. 10W power consumption)
- PCI card: Max. 176mm in length
- One Mini-PCIe Socket (for optional Wi-Fi module)

I/O Interface-Front

- ATX Power on/off switch
- HDD Access/ Power status LEDs
- 4 x Serial port (COM3 & COM4 screw terminal support RS232/422/485, auto-flow control)

- 2 x USB2.0 ports
- 1 x Parallel port

I/O Interface-Rear

- 16 ~ 30V DC input
- 1 x PS/2 Keyboard/Mouse
- 1 x DB15 VGA connector
- 2 x GbE LAN ports
- 1 x Speaker-out
- 2 x USB2.0 ports
- One antenna hole for optional Mini-PCIe Wi-Fi module

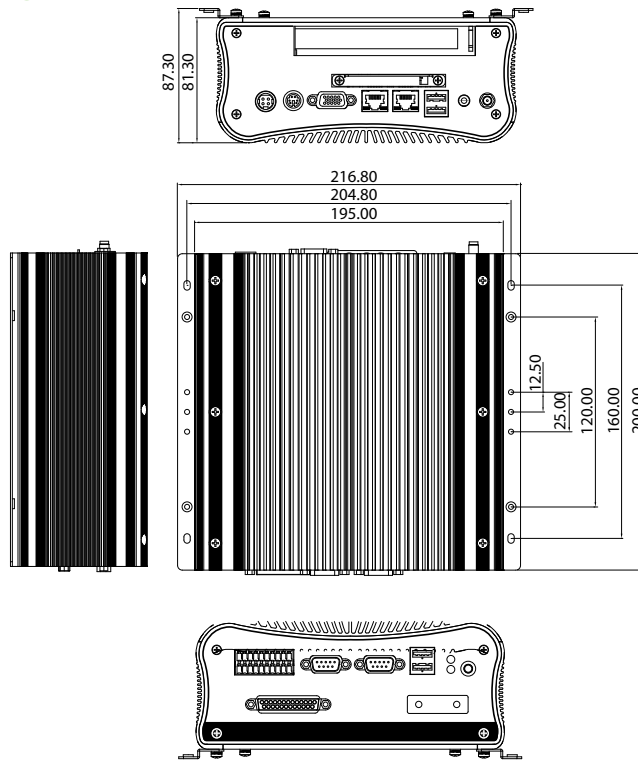
Storage

- 1 x 2.5" SATA HDD drive bay
- One external CF socket
- Support one optional USB DOM (2.54mm, Horizontal type)

Power Requirements

- ATX Power mode
- On-board DC to DC power design support from 16V to 30V DC input
- Optional 19V, 65W AC/DC Power adapter

Dimension Drawing



Dimensions

- 195mm (W) x 200 mm (D) x 81mm (H) (7.7" x 7.9" x 3.2")

Construction

- Aluminum Chassis with fanless design

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 ~ 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 2010 (P/N: 10J00201000X0)**
Intel® Atom™ N270 Fanless Bare-Bone System, with one PCI Expansion Slot
- **19V, 65W AC/DC power adapter w/o power cord (P/N: 7400065012X00)**