



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
- 2 x RS232 and 2 x RS232/422/485
- Support 16V to 30V DC Input
- Support ATX power mode and PXE/ WOL
- One Mini-PCle Socket
- One External CF Socket

Product Overview

Measuring a mere 195mm x 200mm x 65mm, NISE 2000, a Intel® Atom™ N270 1.6G system, is designed for ultra-slim system housed in a compact fanless design chassis with perfect thermal solution. Its unique fanless design eliminates concerns about dust accumulation, and greatly reduces the maintenance cost. NISE 2000 is a perfect solution to maintain reliable operation over long periods of time in harsh environments. The NISE 2000 Series features an on-board 1.6 GHz Intel® Atom™ N270 processor with 945GSE chipset. The entire system consumes less than 25 watts power consumption 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 2000 Series is also equipped with one mini-PCle Socket for expansion needs. Wide range of DC input still remain in NISE 2000 series from 16~30V DC input. The compact aluminum enclosure of the NISE 2000 ensures continuing operation even in space-critical applications. Taking the advantage of lower power consumption in a long product life cycle support, NISE 2000 is an perfect solution for those applications in retail automation, self-service Kiosk, health care automation, industrial process control, battery-operated devices, media servers, gaming machines and VoIP.

Specifications

Main Board

- NISB2001
- On-board Intel® Atom™ N270 processor, 1.6GHz, 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

- One Mini-PCle socket (for optional Wi-Fi module)

I/O Interface-Front

- ATX Power on/off switch
- HDD Access/ Power status LEDs
- 2 x USB2.0 ports
- 4 x Serial port (COM3 & COM4 screw terminal support RS232/422/485, auto-flow control)

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-PCle 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)

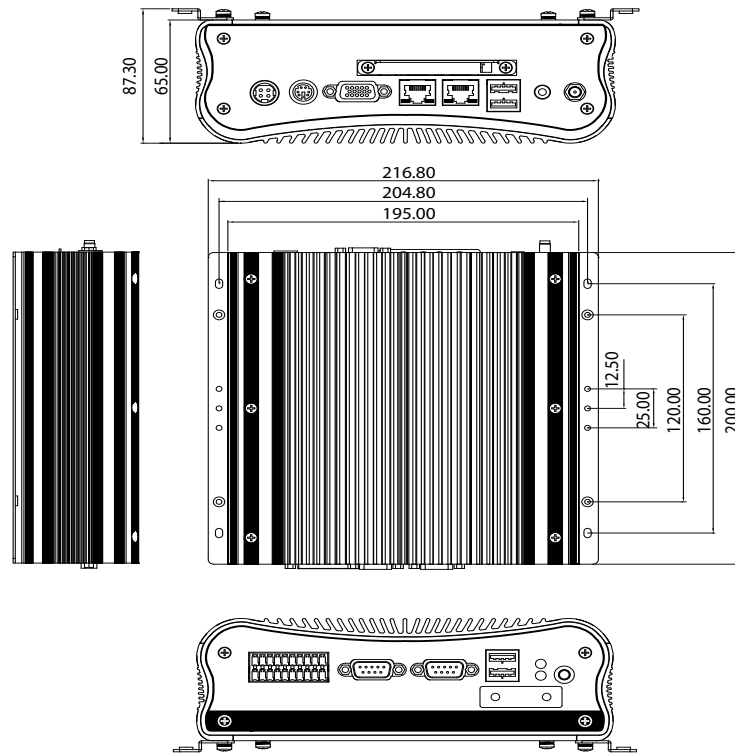
Power Requirements

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

Dimensions

- 195 mm (W) x 200 mm (D) x 65 mm (H) (7.7" x 7.9" x 2.6")

Dimension Drawing



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 2000 (P/N: 10J00200000X0)**
Intel® Atom™ N270 Fanless Bare-Bone System
- **19V, 65W AC/DC power adapter w/o power cord (P/N: 7400065012X00)**