



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 Input
- Support ATX power mode and PXE/ WOL
- One Mini-PCIe Socket
- Two PCI Expansion Slot

Product Overview

NISE 2020, with Intel® Atom™ N270 1.6GHz CPU on board, provides robust performance-per-watt which is the best for cost effective embedded solution. An energy-efficient solution in a compact system, NISE 2020 offers great flexibility to communicate with client devices accommodated various power supply requirements in dynamic vertical markets, range from 16 ~ 30V DC input. Coupled with its four serial ports (two support RS422/485 with auto-flow control feature), dual 10/100/1000 LAN ports, four USB ports, one printer port and one external CF socket, the NISE 2020 is also equipped with two PCI slot and one mini-PCIe Socket for optional expansion needs.

Benefits from less than 25 watts power consumption, NISE 2020 is an ideal model for embedded vertical markets, such as industrial automation, machinery control, message board controller, VoIP, low power-budget devices, and self-service system.

Specifications

Main Board

- NISB2000
- 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

- Supports two 32-bit/33MHz PCI card (Max. 10W power consumption/slot)
- 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
- 2 x USB2.0 ports
- 1 x Parallel port

- 4 x Serial port (COM3 & COM4 screw terminal support RS232/422/485)

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

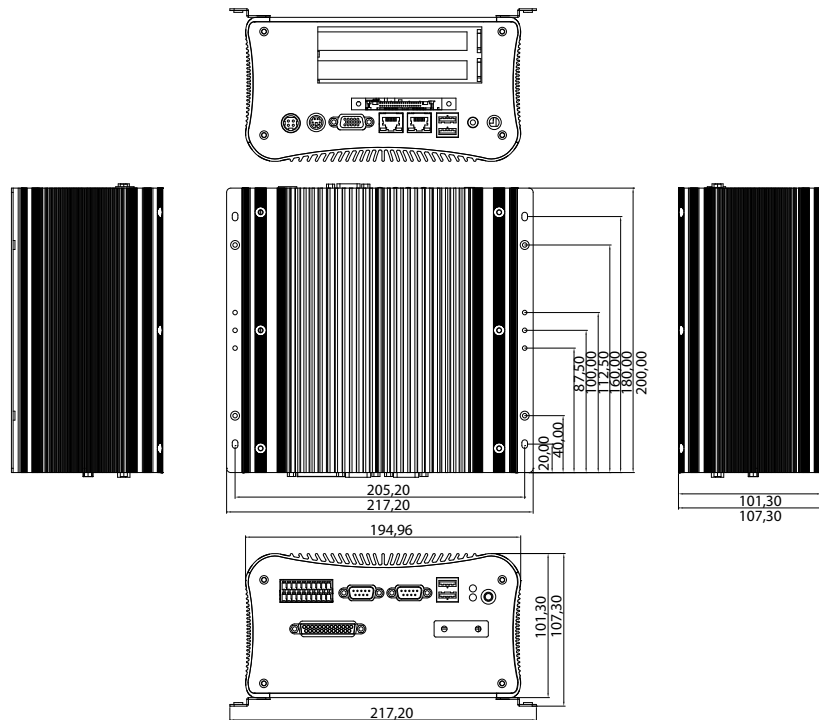
Storage

- 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 or 120W AC/DC Power adapter

Dimension Drawing



Dimensions

- 195 mm (W) x 200 mm (D) x 101 mm (H) (7.7" x 7.9" x 3.98")

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 2020 (P/N: 10J00202000X0)**
Intel® Atom™ N270 Fanless Bare-Bone System with two PCI Expansion Slot
- **19V, 65W AC/DC power adapter w/o power cord (P/N: 7400065012X00)**
- **19V, 120W AC/DC power adapter w/o power cord (P/N: 7410120002X00)**