NISE 2210/2210E

Intel® Atom™ Dual Core D2550 1.86 GHz Fanless System with 6x COM ports, 6x USB2.0 and 1x PCI/PCIe expansion

Main Features

- OnBoard Intel® Atom™ Dual Core D2550 processor 1.86 GHz
- Intel® 82801JIR ICH10 RAID
- 1x DVI-I & 1x HDMI display output
- Dual Intel® 82574IT GbE LAN ports; Support WoL, teaming & PXE
- 6x COM (2x RS232/422/485 w/ isolation protection)

- 4x GPI & 4x GPO
- 6x USB2.0; 1x external CFast socket; 1x SIM card socket
- 1x internal Mini-PCIe with two antenna holes
- Support +9V to +36VDC input; Support ATX power mode

Product Overview

NISE 2210/2210E powered by Intel® Atom™ Dual Core D2550 CPU with higher graphic and computing performance. With its outstanding performance, NISE 2210/2210E can be utilized within industrial automation, self-service machines like KIOSK check-in machines, recycling machines as well as factory automation and etc. NISE 2210/2210E support multiple I/O especially contains up to 6x COM (2x RS232/422/485 w/isolation protection) and 6x USB 2.0. Other than that, NISE 2200/2210E has a wide DC input range from 9V to 36V, a wide operating temperature and a PCI or PCIe expansion; it is therefore designed to meet most application requirements.

Specifications

CPU Support
- OnBoard Intel® Atom™ Dual Core D2550 processor, 1.86GHz, 1M L2 cache
- Intel® 82801JIR ICH10 RAID

Main Memory
- 2x DDR3 SO-DIMM sockets, support up to 4G DDR3-800/1066/1333MHz SDRAM, un-buffered and non-ECC

I/O Interface-Front
- ATX Power on/off switch
- HDD access/ power status LEDs
- 2x DB9, RS232/422/485 w/ 2.5KV isolation protection
- 2x USB2.0
- 1x DB15, 4x GPI & 4x GPO
- 1x Mic-in & 1x Line out
- SIM card socket
- CFast socket
- 2x antenna holes

I/O Interface-Rear
- 1x 2-pin DC input, Support +9 to 36VDC input
- 1x HDMI
- 1x DVI-I

- Dual Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 4x USB2.0
- 2x DB9, RS232/422/485
- 2x DB9, RS232 only

Device
- 1x 2.5" SATA HDD driver bay
- 1x External CFast socket
- 1x External SIM card socket
- 1x internal Mini-PCIe socket (Support optional WiFi or 3.5G wireless module, jumper free)
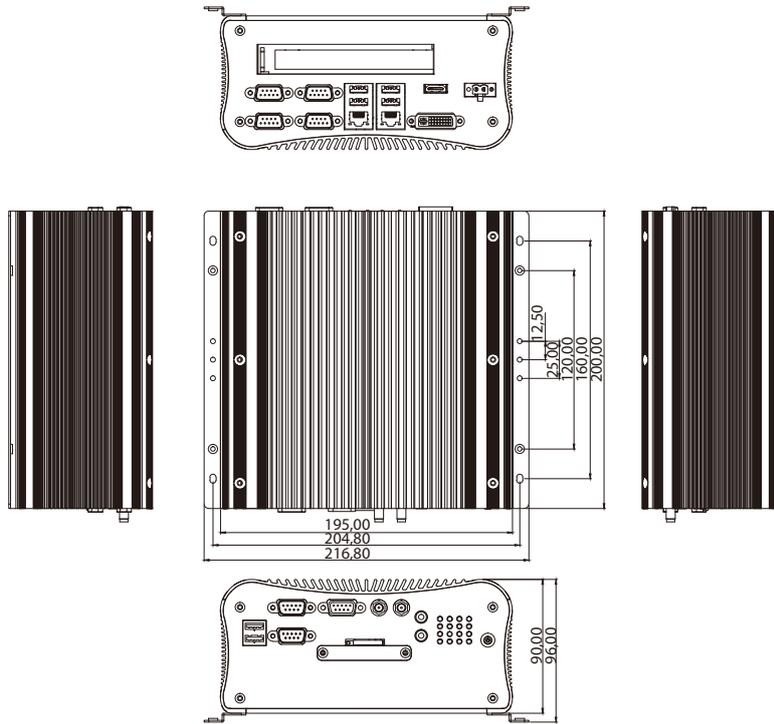
Expansion
- NISE 2210: One PCI Expansion
  - Add-on card length: 176mm max.
  - Power consumption: 10W/slot max.
- NISE 2210E: One PCIe x4 Expansion (w/o Mini-PCIe device)
  - Add-on card length: 176mm max.
  - Power consumption: 10W/slot max.
  - Note: if Mini-PCIe device is installed, only supports PCIe x1)

Power Requirements
- Support +9 to 36VDC input; Support ATX power mode
- Optional 19V, 65W power adapter

Dimension Drawing

Dimensions
* 195mm (W) x 200mm (D) x 90mm (H) (7.7" x 7.9" x 3,6")

Construction
* Aluminum Chassis with fanless design

Environment
* Operating temperature:
  Ambient with air flow: -20°C to 65°C
* Storage temperature: -30°C to 85°C
* Relative humidity: 10% to 93% (Non-condensing)
* Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
  - CFast: 40G, half sine, 11ms, IEC60068-2-27
* Vibration protection w/ HDD condition
  - Random: 0.5Grms @ 5~500 Hz according to IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz according to IEC60068-2-6

Certifications
* CE approval
* FCC Class A

Ordering Information

Barebone

* **NISE2210 (P/N: 10J00221000X0)**
  Intel® Atom™ Dual Core D2550 fanless system with
  One PCI expansion

* **NISE2210E (P/N: 10J00221001X0)**
  Intel® Atom™ Dual Core D2550 fanless system with
  One PCIe x4 expansion

* **19V 65W AC/DC power adapter w/o power cord
  (P/N: 7400065009X00)**