

NISE 2210/2210E

Intel® Atom™ Dual Core D2550 1.86GHz Fanless System
with 6 x COM ports, 6 x USB 2.0 and 1 x PCI/PCIe Expansion



Main Features

- OnBoard Intel® Atom™ Dual Core D2550 processor 1.86GHz
- Intel® 82801JIR ICH10 RAID
- 1 x DVI-I & 1 x HDMI display output
- Dual Intel® 82574IT GbE LAN ports; Support WoL, teaming & PXE
- 6 x COM (2 x RS232/422/485 w/ isolation protection)
- 4 x GPI & 4 x GPO
- 6 x USB 2.0; 1 x external CFast socket; 1 x SIM card socket
- 1 x 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 6 x COM (2 x RS232/422/485 w/ isolation protection) and 6 x USB 2.0. Other than that, NISE 2210/2210E 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

- 2 x DDR3 so-dimm socket, support up to 4G DDR3/DDR3L 1066/1333/1600 SDRAM, with un-buffered and non-ECC
- Pre-install 4G Industrial Grade Memory as the manufacture configuration for shipment

Dual Independent Display Option

- HDMI + VGA
(P/N: 60233VGA50X00, 1.8M cable, from DVI-I to VGA male type)
- HDMI + DVI-D
(P/N: 60233DVI18X00, 1.8M cable, from DVI-I to DVI-D male type)

I/O Interface-Front

- ATX Power on/off switch
- HDD access/power status LEDs
- 2 x DB9, RS232/422/485 w/ 2.5KV isolation protection
- 2 x USB 2.0
- 1 x DB15, 4 x GPI & 4 x GPO
- 1 x Mic-in & 1 x Line out
- SIM card socket
- CFast socket
- 2 x antenna holes

I/O Interface-Rear

- 1 x 2-pin DC input, Support +9 to 36VDC input
- 1 x HDMI
- 1 x DVI-I
- Dual Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 4 x USB 2.0
- 2 x DB9, RS232/422/485
- 2 x DB9, RS232 only

Device

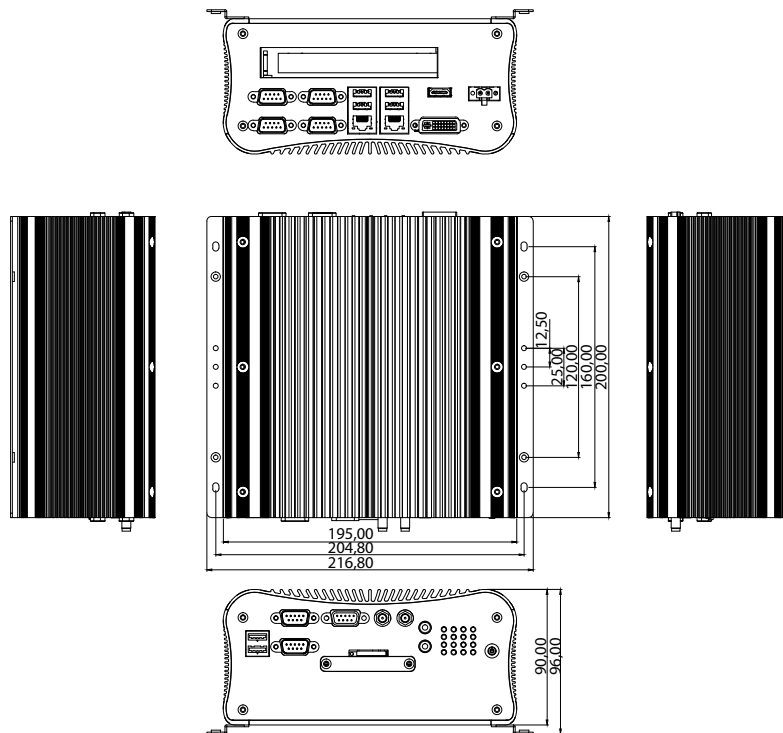
- 1 x 2.5" SATA HDD driver bay
- 1 x External CFast socket
- 1 x External SIM card socket
- 1 x internal Mini-PCIe socket (Support optional Wi-Fi or 3.5G wireless module, jumper free)

Expansion

- NISE 2210: One PCI Expansion
 - Add-on card length: 176mm max.
 - Power consumption: 10W/ slot max.
 - NISE 2210E: One PCIe4 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 PCIe1



Dimension Drawing



Power Requirements

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

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 with industrial grade device
- 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 ~ 500Hz according to IEC60068-2-64
 - Sinusoidal: 0.5Grms @ 5 ~ 500Hz according to IEC60068-2-6

Certifications

- CE approval
- FCC Class A

OS Support List

- Windows XP 32bits
- Windows 7 32bits
- WinCE 7.0

Ordering Information

Barebone

- **NISE 2210 (P/N: 10J00221000X0)**
Intel® Atom™ Dual Core D2550 fanless system with One PCI expansion
- **NISE 2210E (P/N: 10J00221001X0)**
Intel® Atom™ Dual Core D2550 fanless system with One PCIe4 expansion
- **19V 65W AC/DC power adapter w/ o power cord**
(P/N: 7400065009X00)