NISE 2310/2310E

Intel® Atom™ Dual Core D2550 1.86GHz Fanless System
w/ 4 x LAN Ports, 4 x COM Ports and One PCI/PCIe Expansion

Main Features

- OnBoard Intel® Atom™ Dual Core D2550 processor 1.86GHz
- Intel® 82801JIR ICH10 RAID
- 1 x DVI-I & 1 x DVI-D display output
- 4 x Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 4 x RS232/422/485

- 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
- 1 x PCI or PCIe expansion

Product Overview

Powered by Intel® Atom™ Dual Core D2550 Processor, NISE 2310/2310E is another utilized within industrial automation. It is designed with wide operating temperature and can be operated in rough environment. NISE 2310/2310E follows NISE guideline with fanless and cables-less concept. NISE 2310/2310E designed with 4 x LAN ports; Support WoL and LAN teaming and PXE functions. Other than above, NISE 2310/2310E also provide 6 x USB 2.0, dual independent display and super graphic performance for variety needs and one PCI or PCIex1 expansion is available. NISE 2310/2310E series support a wide range DC input from +9V to 36V enhances its reliability in different power condition in any demand.

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

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
- 4 x GPO & 4 x GPI
- 1 x Mic-in and 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 DVI-I
- 1 x DVI-D
- 4 x Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 4 x USB 2.0
- 2 x DB9, RS232/422/485

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)
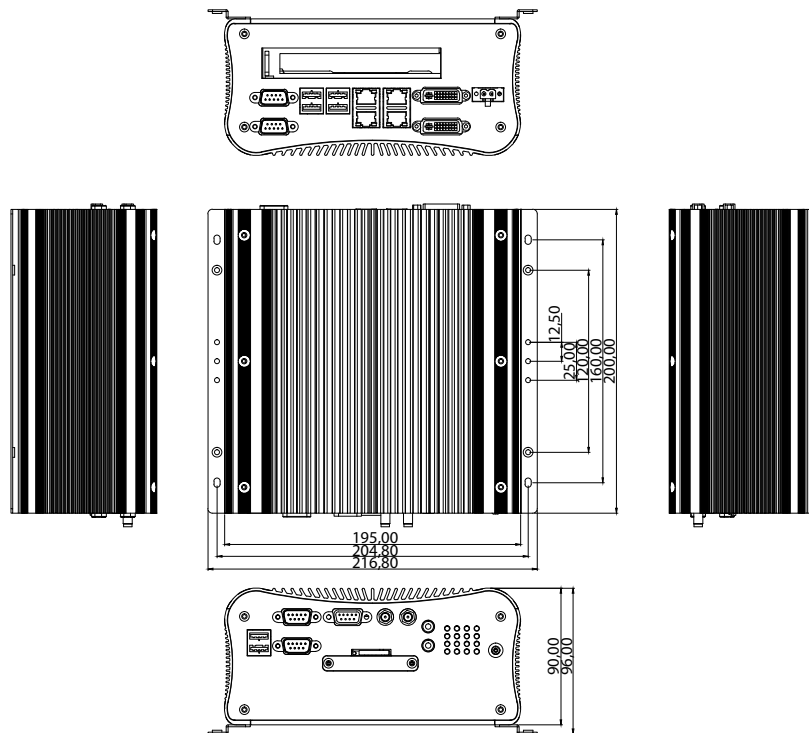
Expansion
- NISE 2310: One PCI Expansion
  Add-on card length: 176mm max.
  Power consumption: 10W/ slot max.
- NISE 2310E: One PCIex1 Expansion
  Add-on card length: 176mm max.
  Power consumption: 10W/ slot max.

Power Requirements
- Support +9V to 36VDC input; Support ATX power mode

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 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
  - 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 2310 (P/N: 10J00231000X0)**
  Intel® Atom™ Dual Core D2550 fanless system with DDR3 4G memory and One PCI expansion

* **NISE 2310E (P/N: 10J00231001X0)**
  Intel® Atom™ Dual Core D2550 fanless system with DDR3 4G memory and One PCIex1 expansion

* **19V 65W AC/DC power adapter w/ o power cord**

  (P/N: 7400065009X00)

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