# NISE 2310/2310E Intel® Atom™ Dual Core D2550 1.86 GHz Fanless System w/ 4x LAN Ports, 4x COM Ports and One PCI/PCIe Expansion





# **Main Features**

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

- 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
- 1x 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 4x LAN ports; Support WoL and LAN teaming and PXE functions. Other than above, NISE 2310/2310E also provide 6x USB2.0, dual independent display and super graphic performance for variety needs and one PCI or PCIe x1 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<sup>®</sup> Atom<sup>™</sup> 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
- 4x GPO & 4x GPI
- 1x Mic-in and 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 DVI-I
- 1x DVI-D

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

#### 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 2310: One PCI Expansion Add-on card length: 176mm max. Power consumption: 10W/slot max.
- NISE 2310E: One PCIe x1 Expansion Add-on card length: 176mm max. Power consumption: 10W/slot max.

## **Power Requirements**

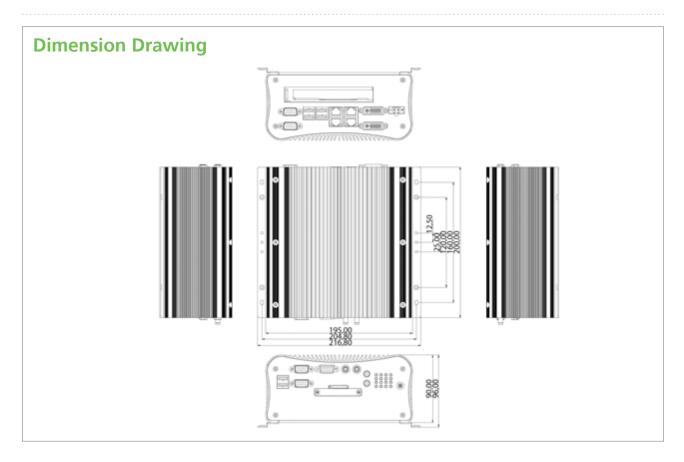
Support +9V to 36VDC input; Support ATX power mode

#### 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
  - 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

- NISE2310 (P/N: 10J00231000X0) Intel<sup>®</sup> Atom<sup>™</sup> Dual Core D2550 fanless system with One PCI expansion
- NISE2310E (P/N: 10J00231001X0) Intel® Atom™ Dual Core D2550 fanless system with One PClex1 expansion
- 19V 65W AC/DC power adapter w/o power cord (P/N: 7400065009X00)