NISE 2100A

Main Features

- OnBoard Intel® Atom™ Dual Core D525 (1.8GHz, 1M Cache) processor
- One DDR3 SO-DIMM socket, DDR3 800 2G memory module support max.
- Dual Intel® 1000/100/10 Mbps LAN ports; Support WoL & LAN teaming
- 4x USB2.0; 1x VGA

- 1x DB15 GPIO connector
- 4x RS232 and 2x RS232/422/485 with auto flow control
- One external CF Socket and one external SIM card holder
- Support +9 to 36VDC input; Support ATX power mode

Product Overview

NISE 2100 series are based on the cutting edge technology of the Intel® Atom™ Dual Core D525 processor. With Atom™ Dual Core D525 CPU, DDR3 667/800 SO-DIMM and multiple I/O ports, NISE 2100 series can be utilized within industrial automation, self-service machines like KIOSK check-in machines, recycling machines as well as factory automation etc. Other features of this versatile series include three Intel® Gigabit LAN ports, four RS232 COM ports, two RS232/422/485 COM ports, four USB2.0, one VGA port, one GPIO port, and one speak out. In terms of storage, SATA HDD/ SSD or front accessible CF card are available for deployment. The NISE 2100 Series has a wide DC input range which varies from +9V to 36V and is therefore designed to meet most application requirements.

Specifications

Main Board
- NISB 2100A
- OnBoard Intel® Atom™ D525 Dual Core processor, 1.8GHz, 1M Cache
- Intel® ICH8M PCH

Main Memory
- 1x DDR3 SO-DIMM socket, support up to 2 GB DDR3 800 SDRAM memory module, unbuffered and non-ECC

Expansion
- 1x Mini-PCIe socket onboard
  Default: support optional Wi-Fi module
  Option: support optional 3.5G module

I/O Interface-Front
- ATX Power on/ off switch
- HDD Access/ Power status LEDs
- 2x USB2.0 ports
- 2x Serial port (RS232)
- 1x external SIM card holder
- 1x DB15 GPIO connector
- 2x Antenna holes (Either optional Wi-Fi or Mobile wireless module)

I/O Interface-Rear
- +9 to 36VDC input
- 1x 3-pin for remote power on/ off switch
- 1x DB15 VGA port
- 2x Intel® 82574L GbE LAN ports (support WoL & LAN teaming)
- 1x Line out
- 2x USB2.0 ports
- 4x Serial port (2x RS232 and 2x RS232/422/485 with auto-flow control: isolation protection on COM1 and COM2)

Storage
- 1x 2.5" SATA HDD drive bay
- 1x external CF socket

Power Requirements
- ATX Power mode
- DC to DC power design onBoard, support from +9 to 36VDC
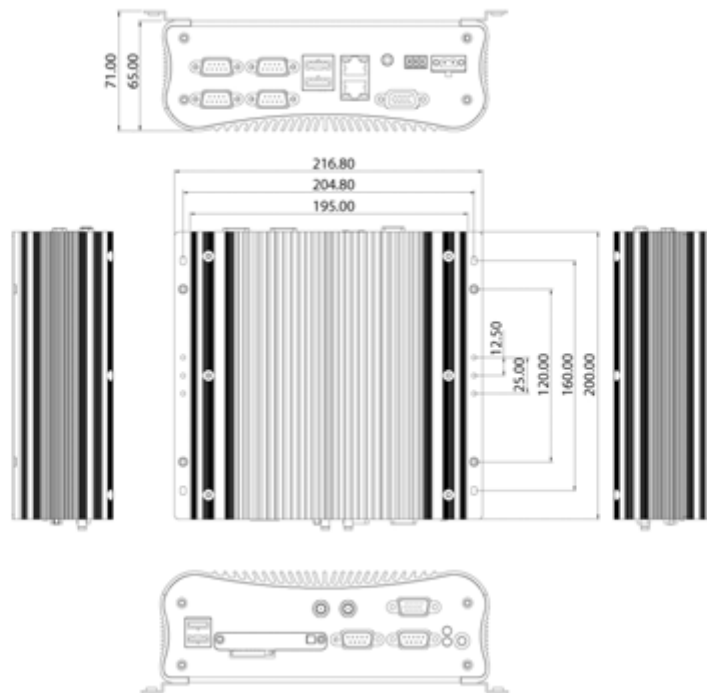- Optional 19V, 65W power adapter

Dimensions
- 195 mm (W) x 200 mm (D) x 65 mm (H) (7.7" x 7.9" x 2.6")

Construction
- Aluminum Chassis with fanless design

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Dimension Drawing

Environment

- Operating temperature:
  Ambient with air flow: -20°C to 70°C (with industrial grade devices)
  (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 93% (Non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
  - CF: 50G, 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
- e13

Ordering Information

Barebone

- **NISE 2100A (P/N: 10J00210001X0)**
  Intel® Atom™ D525 fanless barebone system with DDR3 SO-DIMM
  Socket onBoard

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