NISE 104

Intel® Atom™ Dual Core D2550 1.86 GHz Fanless System

Main Features

- OnBoard Intel® Atom™ Dual Core D2550 processor, 1.86GHz
- Intel® NM10 Express chipset
- 1x DVI-I & 1x HDMI display output
- Dual Intel® 82574L GbE LAN ports; Support WoL, teaming and PXE
- 2x RS232/422/485 and 2x RS232

- 6x USB2.0
- 1x external CFast socket
- 1x Mini-PCIe with two antenna holes
- Support +10 to 28VDC input; Support ATX power mode

Product Overview

Powered by Intel® Atom™ Dual Core D2550 1.86GHz and NM10 PCH, NISE104 has higher graphic and computing performance, but 3 Watts less power consumption compared with previous Atom platform! With performance enhance, NISE104 still follow NISE guideline with fanless and cables-less concept housed in a compact chassis, 185mm (W) x 131mm (D) x 54mm (H). The NISE104 offers dual independent display capability through DVI-I and HDMI connectors, Dual Intel GbE LAN ports, 6x USB2.0, 2x RS232, 2x RS232/422/485, CFast socket and Mini-PCIe socket for optional wireless module connection, either WiFi or 3.5G module.

NISE 104's support for +10 to 28VDC input enhances its reliability in different power condition in factory automation or machinery automation. With Dual independent display and super graphic performance, the NISE104 is an idea choice for public information, self-service Kiosk, access control or data acquisition controller…etc.

Specifications

CPU Support
- OnBoard Intel® Atom™ Dual Core D2550 processor, 1.86GHz, 1M L2 cache
- Intel® NM10 Express chipset

Main Memory
- 1x DDR3 SO-DIMM sockets, support up to 4G DDR3 800/1066 SDRAM, un-buffered and non-ECC

I/O Interface-Front
- ATX power on/off switch
- HDD access/ power status LEDs
- 4x COM ports (COM2& 3: RS232/422/485)
- 2x USB2.0 port
- Audio jack (Line-out and Mic-in)
- 2x antenna holes

I/O Interface-Rear
- Dual Intel® 82574L GbE LAN ports; Support WoL, teaming and PXE
- 4x USB2.0 port
- 1x HDMI
- 1x DVI-I (support VGA & DVI-D display via cable)

- 1x 2-pin DC input, Support +10 to 28VDC input
- 1x external screwed type CFast socket

Device
- 1x 2.5" HDD driver bay
- 1x External CFast Socket
- 1x Mini-PCIe socket (support optional Wi-Fi or 3.5G module)

Power Requirements
- Support +10 to 28VDC input
- 1x optional 12V, 60W power adapter

Dimensions
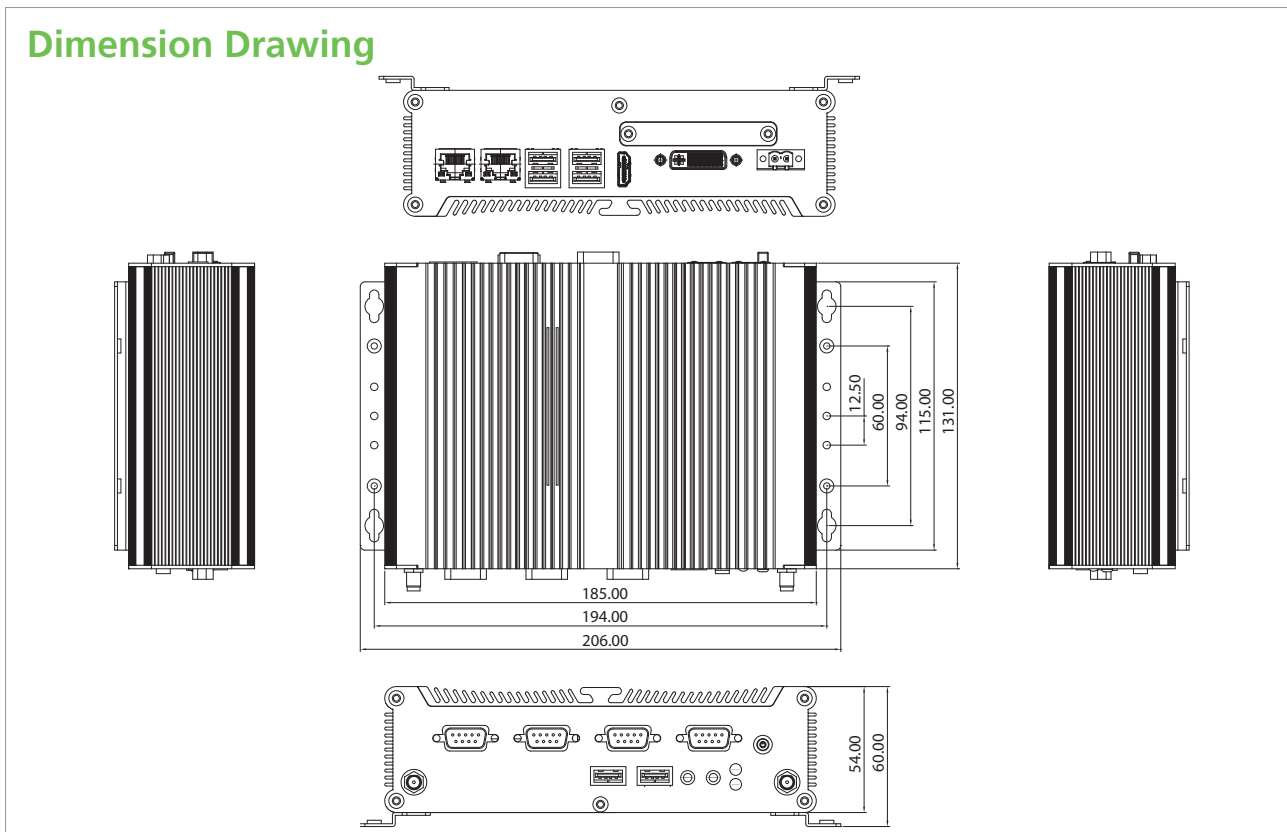- 185mm(W) x 131mm(D) x 54mm(H) (7.28"x 5.2"x 2.13")

Construction
- Aluminum chassis with fanless design

Environment
- Operating temperature:
  - Ambient with air flow: -5°C to 55°C
  (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C

Dimension Drawing

- Relative humidity: 10% to 93% (non-Condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
  - CFast: 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

Ordering Information

Barebone

- **NISE 104 (P/N: 10J00010400X2)**
  Intel® Atom™ Dual Core D2550 fanless systemm

- **12V, 60W AC/ DC power adapter w/o power cord
  (P/N: 7400060013X00)**