



## Main Features

- OnBoard Intel® Atom™ Dual Core D2550 processor, 1.86GHz
- Intel® NM10 Express chipset
- 1 x DVI-I & 1 x HDMI display output
- Dual Intel® 82574L GbE LAN ports; Support WoL, teaming and PXE
- 2 x RS232/422/485 and 2 x RS232
- 6 x USB 2.0
- 1 x external CFast socket
- 1 x 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, NISE 104 has higher graphic and computing performance, but 3 Watts less power consumption compared with previous Atom™ platform! With performance enhance, NISE 104 still follow NISE guideline with fanless and cables-less concept housed in a compact chassis, 185mm (W) x 131mm (D) x 54mm (H). The NISE 104 offers dual independent display capability through DVI-I and HDMI connectors, Dual Intel® GbE LAN ports, 6 x USB 2.0, 2 x RS232, 2 x RS232/422/485, CFast socket and Mini-PCIe socket for optional wireless module connection, either Wi-Fi 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 NISE 104 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

- 1 x 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
- 4 x COM ports (COM2& 3: RS232/422/485)
- 2 x USB 2.0 port
- Audio jack (Line-out and Mic-in)
- 2 x antenna holes

### I/O Interface-Rear

- Dual Intel® 82574L GbE LAN ports; Support WoL, teaming and PXE
- 4 x USB 2.0 port
- 1 x HDMI
- 1 x DVI-I (support VGA & DVI-D display via cable)
- 1 x 2-pin DC input, Support +10 to 28VDC input
- 1 x external screwed type CFast socket

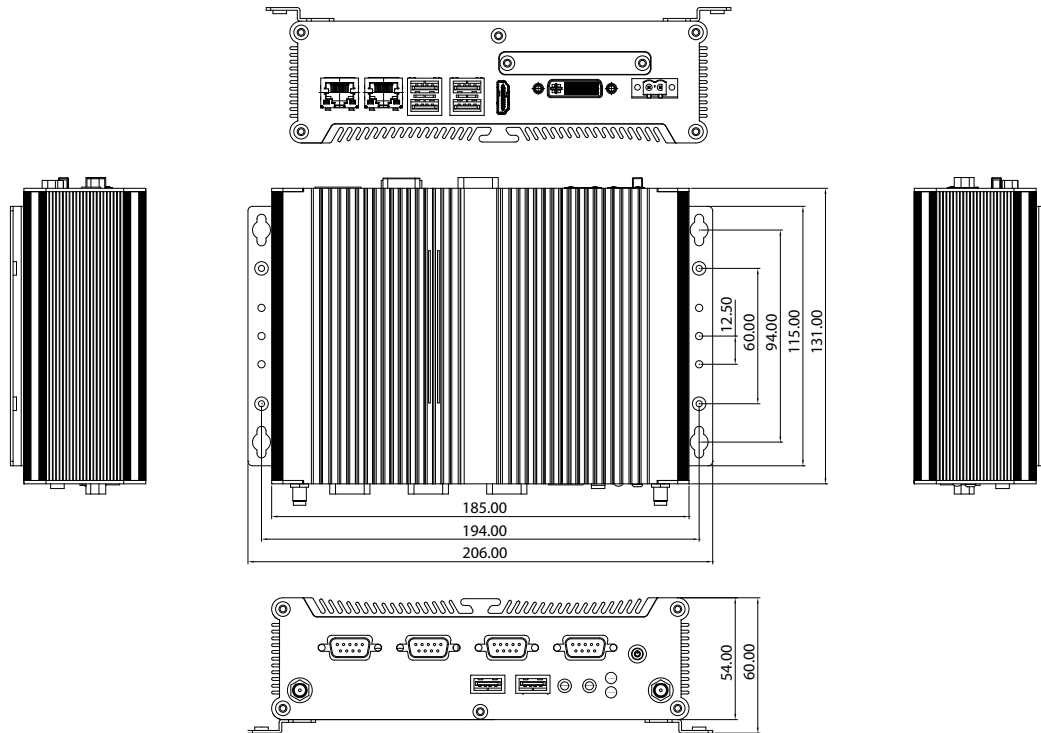
### Device

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

### Power Requirements

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

## Dimension Drawing



### 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
- 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 ~ 500Hz according to IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5 ~ 500Hz according to IEC60068-2-6

### Certifications

- CE approval
- FCC Class A
- UL

### OS Support List

- windows XP 32bits/64bits
- Windows 7 32bits/64bits
- WinCE 7.0
- Andriod 4.0

## 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: 7400060018X00)**