



## Main Features

- Onboard Intel® Celeron® processor J3455 Quad Core, 1.50GHz
- 3 x HDMI
- 6 x USB 3.0, 2 x USB 2.0
- 1 x RS232/422/485, 3 x RS232
- 3 x Intel® I210 GbE LAN ports; support WoL, teaming and PXE
- Onboard TPM 2.0 chip
- 2 x mini-PCIe socket support optional mSATA/Wi-Fi/BT/4G LTE module
- Support operating temperature from -5 to 55 Celsius degree
- Support +9V to 30VDC input; support ATX power mode

## Product Overview

Powered by the latest Generation of Intel® Celeron® processor J3455 (formerly codenamed "Apollo Lake"), NISE 52 is fanless PC designed for industrial applications which demand low power consumption and abundant I/O interfaces but with limited installation space.

NISE 52 supports a wide range of operating temperature from -5~55 Celsius degree and wide range DC power input from 9V to 30V. NISE 52 is also the first system in the slim NISE 50 series to support 3 independent displays. The NISE 52 have strong connectivity - Ethernet-based LAN port and traditional serial port, mainly for Modbus TCP or Modbus RTU communication. For wireless connectivity, there are 2 x mini-PCIe socket which can support optional wireless modules for IoT applications, for example, Wi-Fi, Bluetooth, 4G LTE modules as well as storage module. NISE 52 is definitely the best choice for M2M intelligent system as an intelligent IoT gateway.

## Specifications

### CPU Support

- Onboard Intel® Celeron® processor J3455 Quad Core, 1.50GHz

### Main Memory

- 1 x DDR3L 1866 SO-DIMM socket, support up to 8GB

### Display Option

- 3 x HDMI

### I/O Interface-Front

- ATX power on/off switch
- 3 x HDMI
- 3 x Intel® I210 GbE LAN ports; support WoL, teaming and PXE
- 2 x USB 2.0 (500mA per each)
- 1 x Antenna hole
- 1 x 2-pin remote power on/off switch

### I/O Interface-Rear

- 6 x USB 3.0 ports (900mA per each)
- 1 x DB44 serial port for 4 x COM port
  - COM1: RS232/422/485 with auto flow control and jumper-free setting
  - COM2 & COM3 & COM4: full RS232 signal

- LED indicator for TX/RX
- 1 x Antenna hole
- 1 x 3-pin DC input, support +9V to 30V DC input

### I/O Interface-Internal

- 4 x GPI and 4 x GPO (programmable to GPI or GPO)
- 1 x Nano SIM card holder

### Expansion Slot/Storage

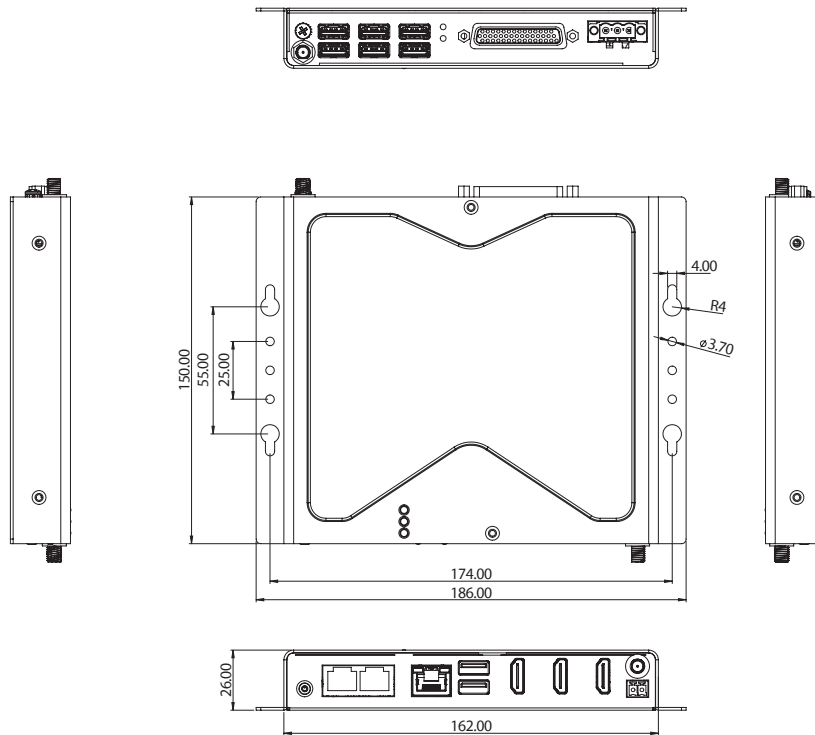
- 2 x mini-PCIe socket for optional Wi-Fi/BT/4G LTE/mSATA

| mini-PCIe  | USB | PCIe | SATA | Msata   | 4G/LTE  | Wi-Fi/BT |
|------------|-----|------|------|---------|---------|----------|
| Mini Card1 | v   | x    | v    | Support | Support | N/A      |
| Mini Card2 | v   | v    | v    | Support | Support | Support  |

### Power Requirements

- Power input: +9 to +30V DC
- 1 x Optional 24V, 60W power adapter

## Dimension Drawing



### Support OS

- Windows 10 64-bit
- Linux Kernel

### Dimensions

- 162mm (W) x 150mm (D) x 26mm (H) without wall mount bracket

### Construction

- Metal 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 75°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection
  - mSATA: 50G, half sine, 11ms, IEC60068-2-27

- Vibration protection with mSATA condition
  - Random: 2Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2Grms @ 5~500 Hz, IEC60068-2-6

### Certifications

- CE
- FCC Class A

## Ordering Information

- **NISE 52-A01 (P/N: 10J00005200X0)**  
Intel® Celeron® J3455 processor fanless system
- **24V, 60W AC/DC power adapter w/o power cord (P/N: 7400060054X00)**