# NISE 2410/2410E





#### Main Features

- Onboard Intel® Atom™ processor E3827 Dual Core, 1.75GHz
- Dual independent display from DVI-I and HDMI
- 2 x Intel<sup>®</sup> I210IT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 2.0 & 1 x USB 3.0

- 2 x mini-PCIe socket for optional mSATA/Wi-Fi/4G LTE/3.5G
- 2 x RS232 & 2 x RS232/RS422/RS485 with auto flow control
- Support -20~70 degree Celus extended operating temperature
- Support 9-30V DC input

## **Product Overview**

Powered by Intel® Atom™ Bay Trail Dual Core processor E3827, 1.75GHz. Driven by the latest Dual Core Intel® Atom™ processor, NISE 2410/2410E can provide excellent computing power and is more power-efficient than the platforms based on the previous generation Intel® Atom™ product family

NISE 2410/2410E supports up to 8G DDR3L memory and have several options on storage devices like CFast, HDD, SSD or mSATA. The NISE 2410/2410E comes with 1 x HDMI, 1 x DVI-I, 2 x GbE LAN ports, 2x COM port with RS232/422/485 and 5x USB ports including one USB 3.0. NISE 2410/2410E supports 9~30V DC input, and can be operated in an extended operating temperature range from -20 to 70 degrees Celsius. This Fanless system supports two mini-PCIe modules, which can be an excellent platform for IOT applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE module) and factory automation applications with optional fieldbus module. Its expansion versatility makes NISE 2400 a perfect platform for factory automation and M2M intelligent computing applications.

## **Specifications**

## **CPU Support**

- Onboard Intel® Atom™ E3800 processor family
  - E3827 Dual Core, 1.75GHz for NISE 2410
  - E3845 Quadl Core, 1.91GHz for NISE 2410E
- Support Intel® Atom™ E3800 processor family from single core E3815, dual core E3825/E3826/E3827 and quad core E3845 with differenceS KUs

#### Main Memory

 2 x DDR3L SO-DIMM socket, support DDR3L 1066/1333 8GB RAM max., un-buffered and non-ECC

#### **Display Option**

- · Dual independent display
  - HDMI and DVI-I
  - HDMI and VGA (via DVI-I connector)

## Front I/O Interface

- ATX power on/off switch
- 1 x Power status, 1 x HDD access, 1 x battery low, 4 x programming LEDs, 4 x Tx/Rx LEDs, 2 x LAN LEDs
- 2 x DB9 RS232 for COM3 & COM4
- 1 x External CFast socket

- 1 x SIM card holder
- 1 x USB 3.0 (900mA per each)
- 1 x Mic-in & 1 x Line-out
- 2 x Antenna holes for optional Wi-Fi/3.5G antenna

#### I/O Interface - Rear

- 4 x USB 2.0
- 1 x DVI-I display output
- 1 x HDMI display output
- 1 x Remote power on/off switch
- +  $2 \times Intel^{\circ}$  I210IT GbE LAN ports; support WoL, teaming and PXE
- 2 x DB9 for COM1 & COM2, both support RS232/422/485 with auto flow control
  - Jumper-free setting on RS232/422/485
- 1 x 3-pin DC input, support +9 to 30VDC input

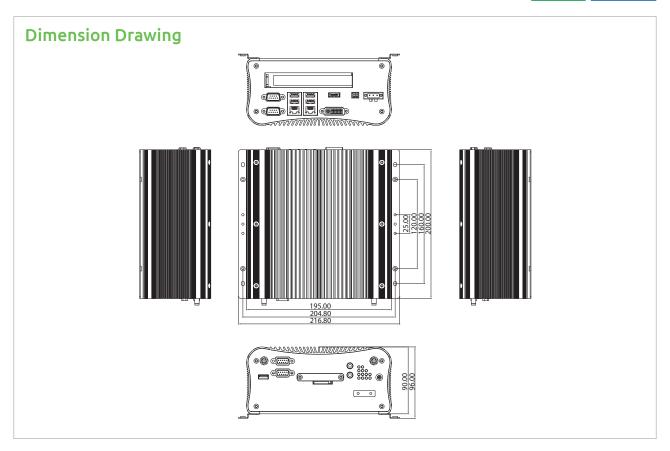
#### I/O Interface - Internal

ullet 4 x GPI and 4 GPO (5V, TTL type)

#### Storage Device

• 1 x CFast card socket (SATA 2.0)





- 1 x 2.5" HDD space (SATA 2.0)
- 1 x mSATA from mini-PCIe socket if SATA HDD is not installed

## **Expansion Slot**

- 2 x mini-PCle socket for optional Wi-Fi/4G LTE/3.5G
- NISE 2410: one PCI Expansion
  - Add-on card length: 176mm max.
  - Power consumption: 10W/slot max.
- NISE 2410E: one PCIe x4 Expansion (only support PCIex1 speed & signal)
  - Add-on card length: 176mm max.
  - Power consumption: 10W/slot max.

## Power Requirement

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

#### Dimensions

• 195mm (W) x 200mm (D) x 90mm (H) without wall-mount bracket

#### Construction

Aluminum and metal chassis with fanless design

#### Environment

- Operating temperature: Ambient with air flow: -20°C to 70°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -30°C to 85°C
- Relative humidity: 10% to 95% (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, IEC60068-2-64 Sinusoidal: 0.5Grms @ 5~500Hz, IEC60068-2-6
- Vibration protection w/ CFast & SSD condition: Random: 2Grms @ 5~500Hz, IEC60068-2-64
   Sinusoidal: 2Grms @ 5~500Hz, IEC60068-2-6

## Certifications

- CE
- FCC Class A

#### **OS Support Lists**

- Windows 8, 32-bit/64-bit
- Windows Embedded Standard 8, 32-bt/64-bit
- Windows 7, 32-bit/64-bit
- Windows Embedded Standard 7, 32-bit/64-bit
- Linux Kernel version 3.8.0

## Ordering Information

- NISE 2410 (P/N: 10J00241000X0)
   Onboard Intel® Atom™ processor E3827 Dual Core, 1.75GHz with one PCI expansion
- NISE 2410E (P/N: 10J00241001X0)
   Onboard Intel® Atom™ processor E3845 Quad Core, 1.91GHz with one PCle x1 expansion
- 24V 60W AC/DC power adapter w/o power cord (P/N: 7400060024X00)

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