NISE 4300

6th Generation Intel® Core™ i5/i3 BGA Fanless System

Main Features

- Support 6th generation Intel® Core™ i5/i3 BGA type processor
- Support 1 x 2.5" SATA HDD
- 2 x DP, and 1 x LVDS (internal) with independent display support
- 2 x Intel® GbE LAN ports
- 1 x M.2 socket and 1 x mini-PCIe socket
- 2 x USB 3.0, 2 x USB 2.0, 2 x RS232, 1 x RS232/422/485 with auto flow contol
- Support +24VDC input; ATX power mode
- Panel PC adaptable

Product Overview

Integrated with 6th generation Intel® Core™ i5/i3 processors, NISE 4300 is fanless PC designed for industrial applications which demand high CPU and graphics performance and adaptable for panel PC. NISE 4300 supports up to 16G DDR3L memory and have several options on storage devices like M.2, HDD, mSATA or SSD. NISE 4300 supports DC input of 24 VDC,+/-20% range and can be operated in an extended operating temperature range between 0 to 55 Celsius degree. For extended module availability, NISE 4300 also designed one internal mini-PCIe socket to support IoT applications (integrate with optional GbE LAN, Wi-Fi module) and common communication applications (integrate with optional GPIO, RS232/422/485 module).

Specifications

CPU Support
- Support 6th generation Intel® Core™ i5/i3 BGA type processor
  - Core™ i5-6300U, 3M Cache, up to 3.00 GHz
  - Core™ i3-6100U, 3M Cache, up to 2.3GHz
- Turbo-boost disabled by default
  (i3-6100U doesn't support turbo boost function)

Main Memory
- 2 x DDR3L SO-DIMM socket, support up to 16GB with un-buffered an non-ECC (pre-installation is neccesary for users who has over 8GB memory demand)

Display Option
- Box PC only, DP1+DP2, two independent displays
- With panel PC, LVDS+ DP1 + DP2, three independent displays

Front I/O Interface Status LEDs
- 1 x Power LED
- 1 x GPIO programmable LED
- 1 x SATA LED

Front I/O Interface
- 1 x ATX power on/off switch
- 1 x 3-pin 24V DC input
- 2 x Intel® I210-AT GbE LAN
- 1 x Dual USB 2.0 ports (500mA/per port)
- 1 x Dual USB 3.0 ports (900mA/per port)
- 2 x DP1.2
- 2 x RS232 COM port
- 1 x RS232/422/485 COM port
- GPIO

Rear I/O Interface
- 2 x Antenna holes

Storage Device
- 1 x M.2 slot support optional 2242 B or B+M key
- 1 x 2.5" HDD or SSD

Expansion Slot
- 1 x Internal mini-PCIe socket support optional Wi-Fi and LTE modules

Power Requirements
- AT/ATX power mode (default: ATX power mode)
- Power input: +24V DC
- Power adapter: optional 24V 120W

Dimensions
- With wall mount bracket: 259 mm(W) x 145 mm (D) x 60 mm (H)
- Without wall mount bracket: 238 mm(W) x 145 mm (D) x 54 mm (H)

Construction
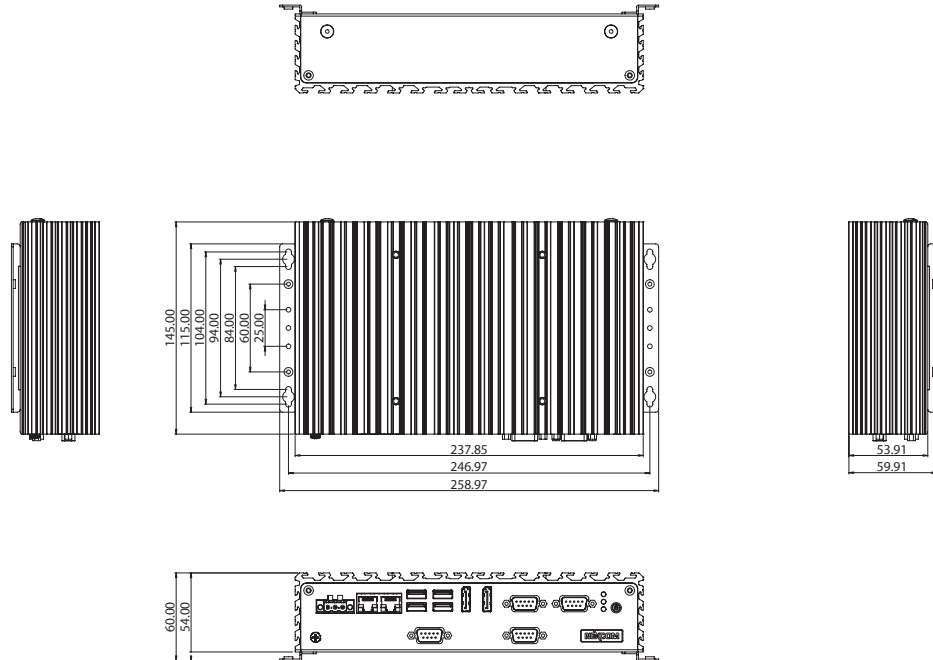- Aluminum and metal chassis with fanless design

Environment
- Operating temperature:
   Ambient with air flow: 0°C to 50°
  (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC60068-2-27
  - M.2: 50G, half sine, 11ms, IEC60068-2-27

Fanless Computer

NEXCOM

Dimension Drawing

- Vibration protection with HDD condition:
  - Random: 0.5Grms @ 5~500 Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms @ 5~500 Hz, IEC60068-2-6

Certifications
- CE approval- EN61000-6-2- EN61000-6-4
- FCC Class A

OS Support Lists
- Windows 10 IoT 64-bit
- Windows 7 Pro 64-bit
- Wes7P 64-bit

Weight Information
- Gross weight: 2.3 kg
- Net weight: 1.8 kg

Ordering Information

- **NISE 4300-6300U System (P/N: 10J00430001X0)**
  6th generation Intel® Core™ i5-6300U fanless system

- **NISE 4300-6100U System (P/N: 10J00430000X0)**
  6th generation Intel® Core™ i3-6100U fanless system

- **24V, 120W AC to DC power adapter w/o power cord (P/N: 7400120023X00)**

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