NISE 3600CE

9/8/7/6th Gen Intel® Core™ i7/i5/i3
Fanless System with Expansion





Main Features

- Support 9/8/7/6th Gen Intel® Core™ i7/i5/i3 socket type processor
- Intel® H310C PCH
- Support 1 x 2.5" SATA HDD / SSD
- 1 x VGA, 1 x HDMI® and 2 x display port with independent display support
- Dual Intel® GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 3.2, 2 x USB 2.0, 5 x RS-232 and 1 x RS-232/422/485
- 2 x Internal Mini PCIe socket support optional Wi-Fi or 4G module
- 1 x External M.2 3042 Key B & 2 x mSATA
- 1 x SIM card socket
- Support +12V to 30V DC input; supports ATX power mode
- One PCIe x4 expansion
- Support Windows 11/10/7

Product Overview

Integrated with 9/8/7/6th Gen Intel® Core™ i7/i5/i3 and H310C PCH platform, NISE series evolve to a new generation called NISE 3600C series. It is not only sustained its good reputation on quality and user friendly features, but also innovated its mechanical design.

With computing and graphic performance enhancement, NISE 3600C series supports 2 x display port, 1 x VGA port and 1 x HDMI port to fulfill the graphic intensive or computing oriented applications, including Auto Optical Inspection, Machinery Automation, ePolice infotainment, surveillance or image processing equipment and healthcare industry. In addition, NISE 3600C series offers 2 x USB 3.2 and 4 x USB 2.0, greater expansion capability with 2 x Intel® GbE LAN ports, 6 x COM ports, and 1 x M.2 3042 Key B socket for front accessible availability. NISE 3600C series is sufficient to support wide range of DC input from +12 to 30V and ATX power; it is a new generation to meet most application requirements.

Specifications

CPU Support

- Support 9/8/7/6th Gen Intel® Core™ i7/i5/i3 socket type processor

Main Memory

- 2 x DDR4 2133/2400/2666 SO-DIMM, supports up to 32GB

Display Option

- Dual independent display
  - VGA and HDMI®
  - Display port and VGA
  - Display port and HDMI®
  - Display port and display port

I/O Interface-Front

- ATX power on/off switch
- HDD access/power status LEDs
- 2 x USB 3.2 port
- 2 x Display port (can be converted to DVI-D or HDMI via active cables)
- 4 x Antenna hole
- 1 x External M.2 3042 Key B (PCIe x1, USB 2.0)
- 1 x SIM card socket (for mini card 2)

I/O Interface-Rear

- 1 x DB44 serial port for 4 x COM port
  - COM1/3/4 (RS-232)
  - COM2 (RS-232/422/485)
- 2 x DB9 for COM5 (RS-232) & COM6 (RS-232)
- 2 x USB 3.2 port (900mA per port)
- 2 x USB 2.0 port (500mA per port)
- 1 x VGA port
- 1 x HDMI port
- 2 x Intel® I210-AT GbE LAN ports; supports WoL, teaming and PXE
- 1 x MIC-in and 1 x Line-out
- 1 x 4-pin remote power on/off switch
- +12V to 30V DC input

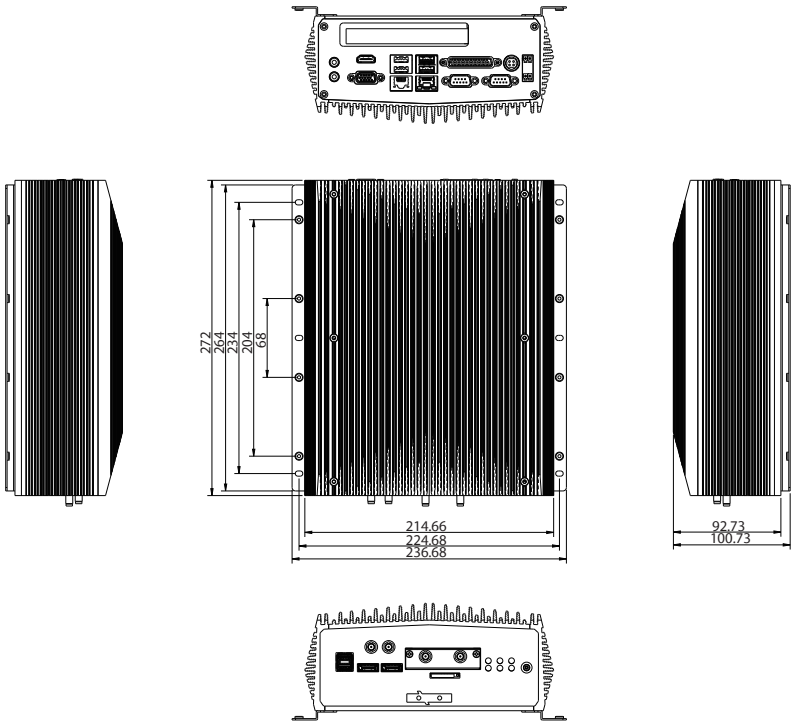
Storage Device

- 1 x 2.5" HDD/SSD
- 1 x M.2 3042 Key B
- 2 x mSATA, supports mPCIe NVRAM module

Expansion Slot

- One PCIe x4 expansion slot
  - Add-on card length: 169mm max.
  - Power consumption: 10W/slot max
- 1 x Internal mini-PCIe socket support optional Wi-Fi/4G LTE

Dimension Drawing



Power Requirements
- AT/ATX power mode (default: ATX power mode)
- Power input: +12 to +30V DC
- Power adapter: optional AC to DC power adapter (24V DC, 120W)

Dimensions
- 215 mm(W) x 272mm (D) x 93mm (H) without wall mount bracket (8.5" x 10.7" x 3.66")

Construction
- Aluminum and metal chassis with fanless design

Environment
- Operating temperature:
  Ambient with air flow: -5°C~60°
  (according to IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14)
  * Industrial grade. memory, storage, and peripherals are required under 60C operating temp.
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~95% (non-condensing)
- Shock protection:
  - HDD: 20G, half sine, 11ms, IEC 60068-2-2
  - M.2: 50G, half sine, 11ms, IEC 60068-2-27
- Vibration protection with HDD condition:
  - Random: 0.5Grms@5~500Hz, IEC 60068-2-64
  - Sinusoidal: 0.5Grms@5~500Hz, IEC 60068-2-6
- Vibration protection with SSD & M.2 condition:
  - Random: 2Grms@5~500Hz, IEC 60068-2-64
  - Sinusoidal: 2Grms@5~500Hz, IEC 60068-2-6

Certifications
- CE approval - EN 61000-6-2- EN 61000-6-4
- FCC Class A
- UKCA

OS Support
- Windows 11 IoT Enterprise
- Windows 10 64-bit
- Windows 7
- Linux OS

Ordering Information

Barebone
- **NISE 3600CE (P/N: 10J03600C01XE)**
  9/8/7/6th Gen Intel® Core™ i7/i5/i3 fanless system with one PCIe x4 expansion
- **19V, 120W AC to DC power adapter w/o power cord (P/N: 7400120027X00)**