



Main Features

- Support 3rd generation Intel® Core™ i5/i3 rPGA socket type processor
- Mobile Intel® QM77 PCH
- Support 1x 2.5" SATA HDD or 2x SATA DOM
- 1x VGA, 1x DVI-D and 2x Display port with Independent Display support
- Dual Intel® GbE LAN ports; Support WoL, teaming & PXE
- 4x USB 3.0, 2x USB 2.0, 5x RS232 and 1x RS232/422/485
- 1x internal Mini-PCIe socket support optional Wifi or 3.5G module
- 1x external CFast socket & 1x SIM card socket
- Support +9V to 30VDC input; Support ATX power mode
- Two PCI or PCIe x4 expansion

Product Overview

Integrated with 3rd generation Intel® Core™ i5/i3 with QM77 PCH platform, NISE series evolve to a new generation called NISE 3600E 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 3600E series supports 2x display port, 1x VGA port and 1x DVI-D 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 3600E series offers 4x USB 3.0 and 2x USB 2.0, greater expansion capability with 2x Intel® GbE LAN ports, 6x COM ports, and 1x external CFast socket for front accessible availability. NISE 3600E series is sufficient to support wide range of DC input from +9 to 30V and ATX power; it is a new generation to meet most application requirements.

Specifications

CPU Support

- Support 3rd generation Intel® Core™ i5/i3 rPGA Socket Type Processor
 - Core™ i5-3610ME, Dual Core, 2.7GHz, 3M Cache
 - Core™ i3-3120ME, Dual Core, 2.4GHz, 3M Cache
- Support Three Independent Display with above processors
- Support 2nd generation Intel® Core™ i5/i3 rPGA Socket Type Processor
 - Core™ i5-2510E, Dual Core, 2.5GHz, 3M Cache
 - Celeron® B810, Dual Core, 1.6GHz, 2M Cache
- Support Dual Independent Display with above processors

Main Memory

- 2x DDR3 SO-DIMM socket, supports up to 8GB DDR3/ DDR3L 1333/ 1600 SDRAM, with un-buffered and non-ECC

Display Option

- Three Independent Display (only support on 3rd Generation Processor)
 - Two Display Port and 1x VGA
 - Two Display Port and 1x DVI-D
- Dual Independent Display
 - VGA and DVI-D
 - Display Port and VGA
 - Display Port and DVI-D

- Display Port and Display Port

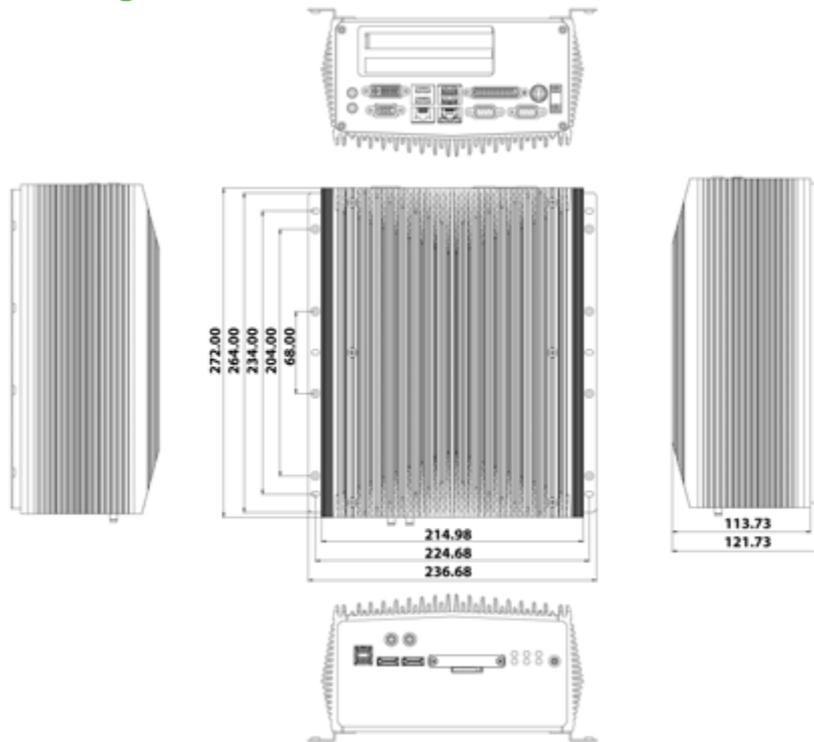
I/O Interface-Front

- ATX power on/ off switch
- HDD Access/ Power status LEDs
- 2x USB3.0 ports (Blue Color)
- 2x Display Port (Can be converted to DVI-D or HDMI via active cables)
- 2x Antenna holes
- 1x external CFast
- 1x SIM card socket

I/O Interface-Rear

- 2x DB9 for COM5 & COM6 (RS232)
- 1x DB44 Serial Port for 4x COM port
 - COM1/COM3/COM4: RS232
 - COM2: RS232/422/485
- 2x Intel® GbE LAN ports (Intel 82574L and 82579LM); Support WoL, teaming and PXE
- 2x USB2.0 ports
- 2x USB3.0 ports (Blue Color)
- 1x DB15 VGA port
- 1x DVI-D port

Dimension Drawing



- ♦ 1x Line-out and 1x Mic-in
- ♦ 2-pin Remote Power on/ off switch
- ♦ +9V to 30VDC input

Storage Device

- ♦ 1x CFast socket
- ♦ 1x 2.5" SATA HDD or 2x SATA DOM
- ♦ SATA DOM: support 90°C horizontal type only

Expansion Slot

- ♦ NISE 3600E2: Two PCIe x4 Expansion Slot
 - Add-on card length: One 169mm max. and One 240mm max.
 - Power consumption: 10W/slot max.
- ♦ NISE 3600P2: Two PCI Expansion Slot
 - Add-on card length: One 169mm max. and One 240mm max.
 - Power consumption: 10W/slot max.
- ♦ NISE 3600P2E: One PCIe x4 and One PCI Expansion Slot
 - Add-on card length: 169mm max. for PCIe x4 and 240mm max. for PCI expansion
 - Power consumption: 10W/slot max.
- ♦ 1x Mini-PCIe socket (Support optional WiFi or 3.5G module)

Power Requirements

- ♦ ATX power mode
- ♦ OnBoard DC to DC power support from 9V to 30VDC
- ♦ Optional power adapter

Dimensions

- ♦ 215mm (W) x 272mm (D) x 114mm (H) without wall mount bracket (8.5" x 10.7" x 4.5")

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: 95% at 40°C
- ♦ 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 @ 5~500 Hz according to IEC60068-2-64
 - Sinusoidal: 0.5Grms @ 5~500 Hz according to IEC60068-2-6

Certifications

- ♦ CE approval
- ♦ FCC Class A
- ♦ UL

Ordering Information

Barebone

- ♦ **NISE 3600E (P/N: 10J00360000X0)**
3rd Generation Intel® Core™ i3/i5 rPGA Fanless System with one PCIe x4 Expansion
- ♦ **NISE 3600E2 (P/N: 10J00360001X2) RoHS Compliant**
3rd Generation Intel® Core™ i5/i3 Fanless System with two PCIe x4 Expansion
- ♦ **NISE 3600P2 (P/N: 10J00360002X0)**
3rd Generation Intel® Core™ i3/i5 rPGA Fanless System with two PCI Expansion
- ♦ **NISE 3600P2E (P/N: 10J00360003X0)**
3rd Generation Intel® Core™ i3/i5 rPGA Fanless System with one PCI Expansion and one PCIe x4 Expansion
- ♦ **19V, 120W AC/DC power adapter w/o power core (P/N: 7410120002X00)**