



Main Features

- OnBoard 3rd generation Intel[®] Core[™] i7 BGA processor
- Mobile Intel® QM77 PCH
- Support 1x 2.5" SATA HDD or 2x SATA DOM
- 2x Display Port; 1x VGA; 1x DVI-D; 2x USB3.0; 2x USB2.0
- 4x Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 2x DB9 for RS232/422/485; 1x DB44 Serial Port for 4x RS232
- 1x internal Mini-PCIe socket supports optional Wifi or 3.5G module
- 1x CFast socket; 1xSIM card socket;
- Support +24VDC input; Support ATX Power mode
- Support PCI or PCIe expansion

Product Overview

Integrated with 3rd generation Intel® Core™ i7 with QM77 PCH platform, NISE 3640E2/P2/P2E designed with 4x Intel® 82574IT GbE LAN controllers which can supports up to 4 cameras and better throughput; besides, 3640E2/P2/P2E also supports WoL, LAN teaming and PXE function. With computing and graphic performance enhancement, NISE 3640E2/P2/P2E supports 3 independent display and delivers a level of performance ideal for image and vision measurement on traffice control, overspeed monitoring, real time update and ePlice. More, NISE 3640E2/P2/P2E supports 2x RS232/422/485, 4x RS232, 2x USB3.0, 2x USB2.0, 1x CFast socket, 1x SIM card socket, and 1x internal Mini-PCle socket supports optional Wifi or 3.5G module. In NISE 3640E series, multiple chooses for PCI or PCIe expansion is also supported here.

Leveraging a reliable fanless, durable cable-free design and wide operating temperature, 3640E2/P2/P2E can be exhibited in harsh environments, where severe temperature variation and vibration may exist.

Specifications

CPU Support

- OnBoard 3rd generation Intel[®] Core[™] i7 BGA processor CoreTM i7-3517UE, Dual Core, 1.7GHz, 4M Cache
- Mobile Intel® QM77 PCH

Main Memory

- On-board 2x DDR3/DDR3L SO-DIMM, supports up to 8GB DDR3/ DDR3L 1333/1600 SDRAM, with un-buffered and non-ECC
- Pre-install 4G Industrial Grade Memory as the manufacture configuration for shipment

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

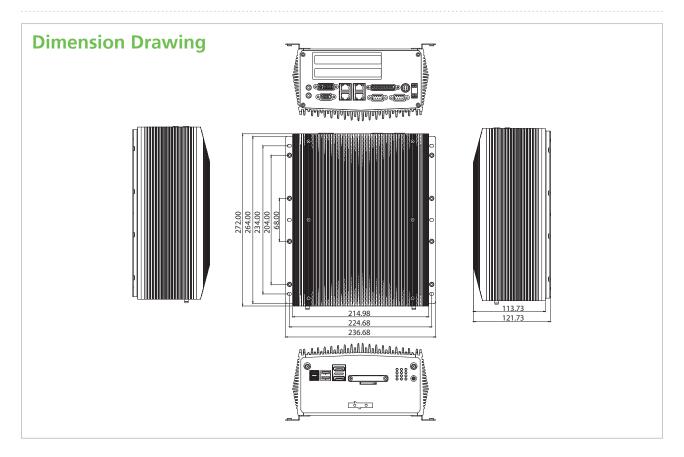
I/O Interface-Front

- ATX power on/off switch
- HDD access/ Power status/ LAN status LEDs
- 2x USB3.0 (Blue color)
- 2x USB2.0
- 2x Display Port (Can be converted to DVI-D or HDMI via active cables)
- 1x CFast socket
- 1x SIM card socket
- 2x Antenna holes

I/O Interface-Rear

- 2x DB9 for RS232/422/485
- 1x DB44 for 4x RS232
- 4x Intel® 82574IT GbE LAN ports; Support WoL, teaming and PXE
- 1x DB15 VGA port
- 1x DVI-D
- 1x Line-out and 1x Mic-in
- 2-pin Remote Power on/off switch
- +24VDC Input





Storage Device

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

Expansion Slot

- NISE 3640E2: Two PCIe x4 expansion
 - Add-on card length: One 169mm max. and One 240mm max.
 - Power consumption: 10W/slot max.
- NISE 3640P2: Two PCI expansion
 - Add-on card length: One 169mm max. and One 240mm max.
 - Power consumption: 10W/slot max.
- NISE 3640P2E: One PCI expansion and One PCIex4 expansion
 - Add-on card length: 169mm max. for PClex4 and 240mm max. for PCl expansion
 - Power consumption: 10W/slot max.
- 1x Mini-PCle socket (Support optional WiFi or 3.5G module)

Power Requirements

- ATX Power mode
- Support +24VDC Input
- 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: -20°C to 60°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

Ordering Information

Barebone

• NISE 3640E (P/N: 10J00364000X0)

3rd Generation Intel® Core™ i7 Fanless System with One PClex4 Expansion

NISE 3640E2 (P/N: 10J00364001X0)

3rd Generation Intel® Core™ i7 Fanless System with Two PClex4 Expansion

• NISE 3640P2 (P/N: 10J00364002X0)

3rd Generation Intel® Core™ i7 Fanless System with Two PCI Expansion

• NISE 3640P2E (P/N: 10J00364003X0)

3rd Generation Intel® Core™ i7 Fanless System with One PCI Expansion and One PClex4 Expansion

 24V, 120W AC/DC power adapter w/o power cord (P/N: 7400120001X00)

NECOM Fanless Computer