NISE 3640E2/P2/P2E ^{3rd Generation Intel®} Core™ i7 Fanless System with 4x LANs, 6x COMs and PCI/PCIe Expansion





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 USB3.0, 1x CFast socket, 1x SIM card socket, and 1x internal Mini-PCIe 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, 6M Cache
- Mobile Intel® QM77 PCH

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

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

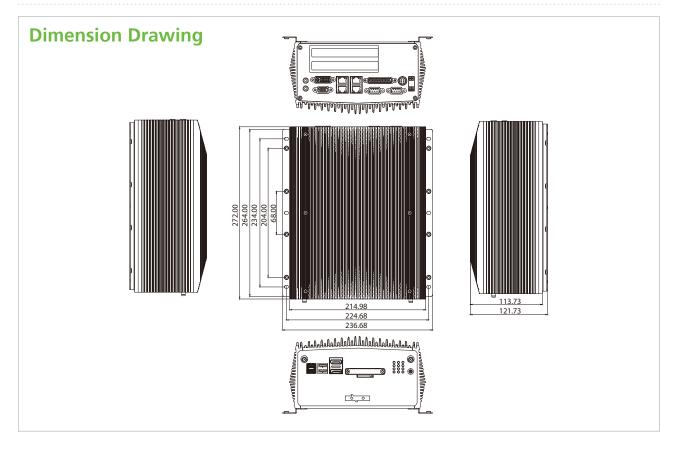
 1x 2.5" SATA HDD or 2x SATA DOM (support 90°C horizontal type only)

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.

Fanless Computer





- 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 PCIex4 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
- 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
- Clast. 500, Hall sille, This, IEC00006-2-
- 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: TBD)
 3rd Generation Intel[®] Core™ i7 Fanless System with One PClex4 Expansion
- NISE 3640E2 (P/N: TBD)
 Srd Generation Intel[®] Core™ i7 Fanless System with
- Two PCIex4 Expansion
 NISE 3640P2 (P/N: TBD)

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

• NISE 3640P2E (P/N: TBD)

3rd Generation Intel[®] Core™ i7 Fanless System with One PCI Expansion and One PCIex4 Expansion

 24V, 120W AC/DC power adapter w/o power core (P/N: TBD)