

NISE 3640VR

3rd Generation Intel® Core™ i7 System
with 2 x 3.5" SATA HDD, 4 x LAN, and 3 Independent Display



Main Features

- Onboard 3rd generation Intel® Core™ i7 BGA processor
 - Mobile Intel® QM77 PCH
 - Support 2 x 3.5" SATA HDD
 - 2 x Display port; 1 x VGA; 1 x DVI-D
 - 4 x Intel® 82574IT GbE LAN ports; support WoL, teaming and PXE
 - 2 x USB 3.0; 2 x USB 2.0
 - 2 x DB9 for RS232/422/485; 1 x DB44 serial port for 4 x RS232
 - 1 x Internal mini-PCIe socket supports optional Wi-Fi or 3.5G module
 - 1 x CFast socket; 1 x SIM card socket
 - Support +24VDC input; support ATX power mode
 - Support 2 x 3.5" HDD
- * Note: air ventilation holes design will be defined as product launch

Product Overview

NISE 3640VR features the 3rd Generation Intel® Core™ i7 17W BGA type processor with QM77 PCH platform. NISE 3640VR inherits high performance, rich I/O, fanless and cable-free design from NISE family which successful meets market demands.

NISE 3640VR designed with 4 x Intel® 82574IT GbE LAN controller, which can support up to 4 cameras and better throughput; also, NISE 3640VR , supports WoL, LAN Teaming and PXE function. Moreover, NISE 3640VR delivers a level of performance ideal for image and vision measurement on traffic control, overspeed monitoring, real time update and ePolice. NISE 3640VR supports 2 x 3.5" HDD w/ ventilation holes on panels for HDD cooling design, 2 x USB 3.0, 2 x USB 2.0, 2 x Display port, 1 x VGA, 1 x DVI-D, 2 x RS232/422/485 and 4 x RS232. Leveraging a reliable fanless and durable cable-free design in aluminum chassis, NISE 3640VR can be exhibited in harsh environments, where severe temperature variation and vibration may exist.

Specifications

CPU Support

- Onboard BGA 3rd generation Intel® Core™ i7/i5/i3 processors
 - Core™ i7-3517UE, Dual Core, 1.7GHz, 4M Cache, Max Turbo Frequency 2.8 GHz (onboard default)
 - Core™ i5-3437U, Dual Core, 1.9GHz, 3M Cache, Max Turbo Frequency 2.9 GHz
 - Core™ i3-3217UE, Dual Core, 1.6GHz, 3M Cache
 - Celeron 1047UE, Dual Core, 1.4GHz, 2M Cache
- Mobile Intel® QM77 PCH
- Turbo-boost disabled by default

Main Memory

- Onboard 2 x 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 1 x VGA
 - Two display port and 1 x DVI-D

- Dual independent display
 - VGA and DVI-D
 - Display port and VGA

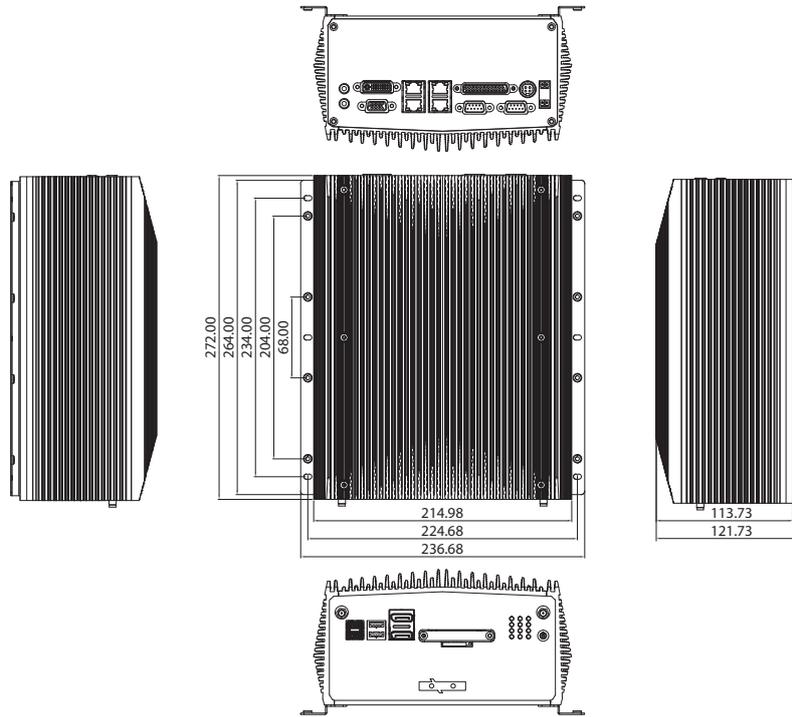
I/O Interface-Front

- ATX power on/off switch
- HDD access/power status/LAN status LEDs
- 2 x USB 3.0 (blue color)
- 2 x USB 2.0
- 2 x Display port (can be converted to DVI-D or HDMI via active cables)
- 1 x CFast socket
- 1 x SIM card socket
- 2 x Antenna holes

I/O Interface-Rear

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

Dimension Drawing



Storage Device

- 2 x 3.5" SATA HDD
- 1 x CFAST socket

Expansion Slot

- 1 x mini-PCIe socket (support optional Wi-Fi 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
- Ventilation holes on panels for HDD cooling 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 @ 5~500Hz according to IEC60068-2-64
 - Sinusoidal: 0.5Grms @ 5~500Hz according to IEC60068-2-6

Certifications

- CE approval
- FCC Class A

OS Support Lists

- Windows XP 32-bit and 64-bit
- Windows 7 32-bit and 64-bit
- Windows 8.1 32-bit and 64-bit

Ordering Information

Barebone

- **NISE 3640VR (P/N: 10J00364004X0)**
3rd generation Intel® Core™ i7 system with 2 x 3.5" SATA HDD
- **24V, 120W AC/DC power adapter w/o power cord (P/N: 7400120001X00)**