

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 (Onboard Default)
 - Core™ i5-3437U, Dual Core, 2.9GHz, 3M Cache
 - Core™ i3-3217UE, Dual Core, 1.6GHz, 3M Cache
 - Celeron 1047UE, Dual Core, 1.4GHz, 2M Cache
- ♦ Mobile Intel® QM77 PCH

Main Memory

- ♦ On-board 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

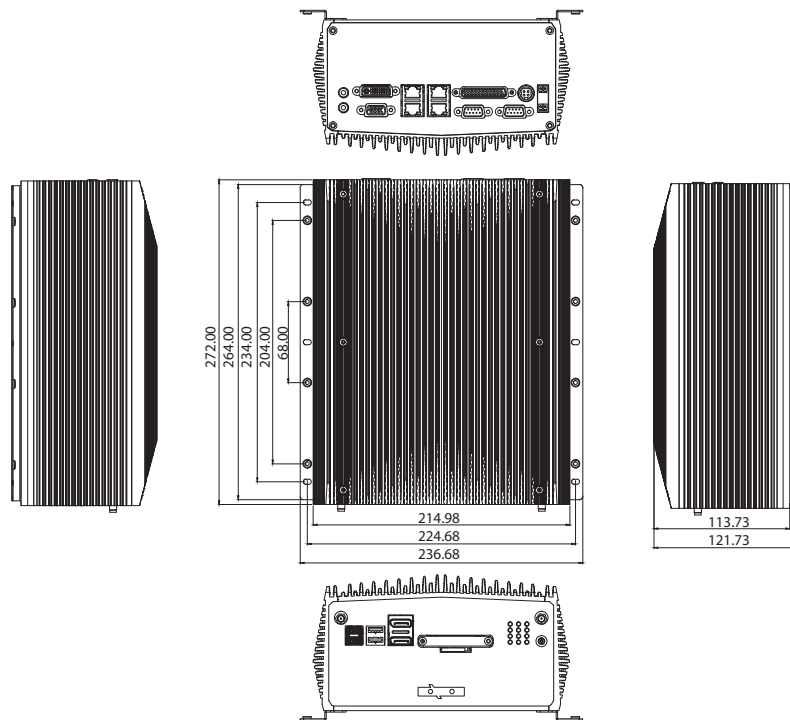
I/O Interface-Rear

- ♦ 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

Storage Device

- ♦ 2 x 3.5" SATA HDD
- ♦ 1 x CFast socket

Dimension Drawing



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 32bits and 64bits
- Windows 7 32bits and 64bits
- Windows 8.1 32bits and 64bits

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)