NISE 3500iP2

Main Features

- Support Intel® Core™ i7/ i5 socket processor
- Mobile Intel® QM57 PCH
- Dual Intel® Gigabit Ethernet ports
- Dual VGA or VGA/ DVI Independent Display
- 3 x RS-232 and 1 x RS-232/ 422/ 485 with Auto Flow Control
- 5th RS-232 (option: 4x digital input, 4x digital output)
- 3-pin Phoenix contact + 24V DC Input, 1.5KV Isolation Protection
- Support ATX power mode and PXE/ WoL
- External system anti-vibration kit

Product Overview

NISE 3500iP2 is mainly designed for industrial automation and factory automation in which environment the power isolation protection is necessary to ensure the system running safely without any interference or power noise coming from other equipments. NISE 3500iP2 provides up to 1.5KV isolation protection which can keep operation smoothly and constantly without any unexpected interruption in any arduous situation. In addition to the vibration concern, there is one external anti-vibration kit coming with this system to stand for 1G vibration condition in the operation environment.

Powered by Intel® Core™ i7/ i5 processor, NISE 3500iP2 supports on-processor graphics and two DDR3 800/1066 memory modules up to 4GB. Besides the strong kernel, NISE 3500iP2 offers dual independent display capability through HDMI and DVI-I connectors, dual Intel® GbE Ethernet ports, 6x USB2.0, 5x COM ports, 8x GPIO, 2x SATAII and 2x eSATA. NISE 3500iP2 supports for 24V DC input with 1.5KV isolation protection and ATX power mode is not excluded here.

Specifications

Main Board
- NISB3500
- On board Mobile Intel® QM57 Platform Controller Hub
- Support Intel® Core™ i7-620M PGA Processor (2.66GHz, 4M Cache)
- Support Intel® Core™ i5-520M PGA Processor (2.4GHz, 3M Cache)
- Support Intel® P4500 PGA Processor (1.86GHz, 2M Cache)

Main Memory
- 2x 240-pin memory DIMM, up to 4GB DDR3 800/ 1066MHz SDRAM, unbuffered and non-ECC
  Note: Actual memory size is dynamic based on the OS I/O resource allocation

I/O Interface-Front
- ATX power on/ off switch
- HDD Access/ Power status LEDs
- 2 x USB2.0 ports
- 2 x eSATA ports

I/O Interface-Rear
- 2-pin Remote Power on/ off switch
- 3-pin Phoenix contact + 24V DC input
- 1 x PS/ 2 for Keyboard / Mouse
- 1 x DB9 for COM5, RS-232 (option: 4x GPI and 4x GPO)
- 1 x DB44 Serial Port for 4x RS-232
  (COM2: RS-232/ 422/ 485 with auto flow control)
- 2 x GbE LAN ports
- 4 x USB2.0 ports
- 1 x DB15 VGA port
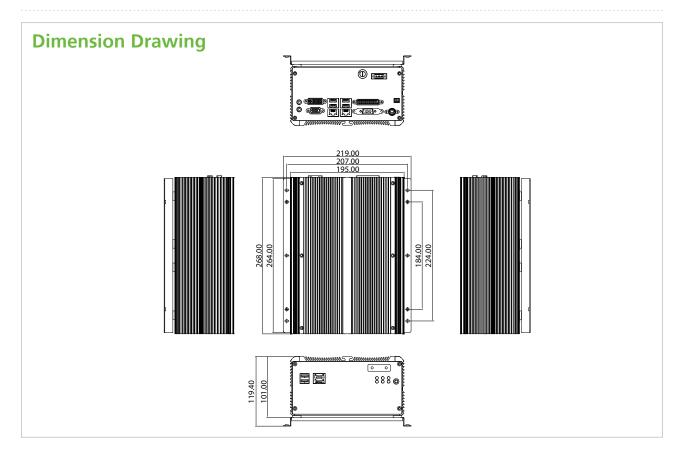- 1 x DVI-I port
- 1 x Speaker-out and 1x Mic-in

Device
- 2 x 2.5" HDD driver bay

Expansion
- PCI expansion is not available on NISE 3500iP2

Dimension Drawing

Power Requirements

- ATX power mode
- DC Input: +24V DC, 1.5KV Isolation Protection (Range: +18-36V)
- Pin Definition: Positive, Negative and Chassis Ground

Dimensions

- 195mm (W) x 268 mm (D) x 101mm (H) (7.7" x 10.5" x 3.98")

Construction

- Aluminum Chassis with fanless design

Environment

- Operating temperature:
  Ambient with air flow: -5°C ~ 55°C
  (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% to 93% (Non-Condensing)
- Shock protection: 20G, half sine, 11ms, IEC60068-2-27
- Vibration protection
  Random: 1Grms @5~500 Hz according to IEC68-2-64
  Sinusoidal: 1Grms @5~500 Hz according to IEC68-2-64

Certifications

- CE approval
- FCC Class A
- UL/ cUL

Ordering Information

Barebone

- **NISE 3500iP2 (P/N: 10J00350024X0) RoHS Compliant**
  Intel® Core™ i7/ i5 fanless system with power isolation
  (MoQ is required)

NEXCOM

Fanless Computer

We reserve the right to change specifications and product descriptions at any time without prior notice.

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