



## Main Features

- Support Intel® Core™ i7/ i5 socket processor
- Mobile Intel® QM57 PCH
- Dual Intel® Gigabit Ethernet ports
- Dual VGA or VGA/ DVI-I Independent Display
- 3 x RS-232 and 1 x RS-232/ 422/ 485 with Auto Flow Control
- 5<sup>th</sup> RS-232 (option: 4x digital input, 4x digital output)
- One PCI Expansion and two swappable HDD Trays
- Support 9V~30V DC power input
- Support ATX power mode and PXE/ WoL

## Product Overview

NISE 3500P2S is designed for the sake of tremendous data storage or data backup demand in the industrial automation and factory automation. NISE 3500P2S powered by Intel® Core™ i7/i5 and supported two DDR3 800/1066MHz memory modules up to 4GB. In addition to its efficient CPU computing performance, NISE 3500P2S embedded with dual swappable HDD trays to protect smoothly data collecting and secure data backup for further analysis and. Dual swappable HDD trays is designed user friendly, Dual swappable HDD trays is designed user friendly and support RAID function.

Lane performance of NISE3500P2S is also worthy mentioned, dual GbE LAN ports support data transfer constantly for user's convenience. Other features of NISE3500P2S include 5x COM ports, 6x USB, 2x eSATA, 1x PCI expansion slot (add-on card length: 123mm max.), audio interfaces and DVI-I & VGA display. NISE3500P2S support ATX power mode and has a wide DC input range which varies from 9V~30V; therefore, NISE3500P2S is designed to meet most application requirements.

## 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
- 9~30V 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

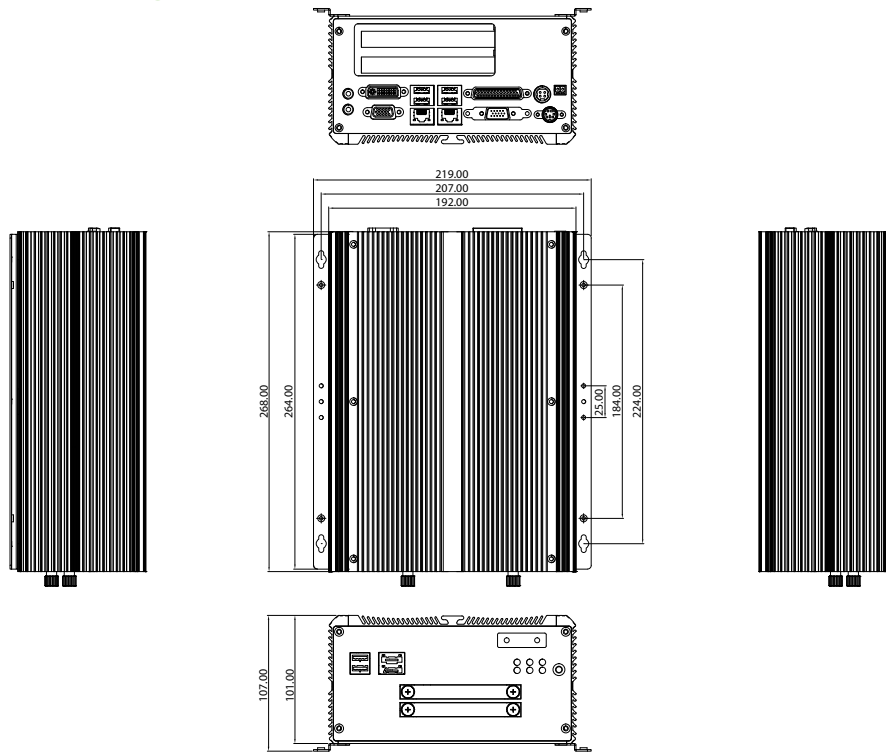
### Device

- 2 x 2.5" HDD driver bay

### Expansion

- 1x PCI expansion (10W max./ per slot)
- Add-on card length: 123mm max.

## Dimension Drawing



### Power Requirements

- ATX power mode
- On-board DC to DC power support from 9V to 30V DC
- Optional power adapter

### 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: 0.5Grms @5~500 Hz according to IEC68-2-64  
Sinusoidal: 0.5Grms @5~500 Hz according to IEC68-2-64

### Certifications

- CE approval
- FCC Class B

## Ordering Information

### Barebone

- **NISE 3500P2S (P/N: 10J00350023X0) RoHS Compliant**  
Intel® Core™ i7/ i5 fanless system with two swappable HDD tray and one PCI expansion slots (length: 123mm max)
- **19V, 120W AC/DC power adapter w/o power core (P/N: 7410120002X00)**