NISE 3500M2E

Main Features

- Support Intel® Core™ i7/i5 socket processor
- Mobile Intel® QM57 PCH
- Dual Intel® GbE LAN ports; Support WoL and PXE
- Dual VGA or VGA/DVI or DVI/HDMI Independent Display
- 3 x RS232 and 1 x RS232/422/485 with Auto Flow Control

- 5th RS232 (option: 4 x digital input, 4 x digital output)
- 3 x IEEE1394b ports, 2 x eSATA
- Support +9V to 30VDC power input; Support ATX power mode
- 1 x PCI expansion slots and 1 x PCIe expansion slots

Product Overview

Utilizing 32nm Intel® Core™ i7/i5 processor, NISE 3500 series feature Intel® Turbo Boost and Intel® Hyper-Threading technologies (2 cores, 4 threads), as well as on-processor graphics and two DDRIII 800/1066 memory modules up to 4GB. In addition, NISE 3500 provides a wide variety of display I/O configurations and rich I/O interfaces including two Intel® GbE Ethernet ports, 5 x COM ports, 6 x USB, 8 x GPIO, 2 x SATAII, 2 x eSATA, audio interfaces. NISE 3500M has more features than NISE 3500, for example, it is equipped with 3 x IEEE1394b ports and 1 x HDMI port. NISE 3500 is designed for a broad range of applications which demand intense graphics performance, these include medical diagnostic equipment, medical imaging, data storage, industrial automation, public infotainment, surveillance security applications.

Specifications

Main Board
- NISB 3500
- OnBoard 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
- 2 x 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 USB 2.0 ports
- 2 x eSATA ports
- 3 x IEEE1394b ports
- 1 x HDMI

I/O Interface-Rear
- 2-pin Remote Power on/ff switch
- +9V to 30VDC input
- 1 x PS/2 for Keyboard/Mouse
- 1 x DB9 for COM5, RS232 (option: 4 x GPI and 4 x GPO)

- 1 x DB44 Serial Port for 4 x RS232
  (COM2: RS232/422/485 with auto fl ow control)
- 2 x GbE LAN ports; Support WoL and PXE
- 4 x USB 2.0 ports
- 1 x DB15 VGA port
- 1 x DVI-I port
- 1 x Line-out and 1 x Mic-in

Device
- 2 x 2.5" HDD driver bay (support RAID 0/1 functions)

Expansion
- 1 x PCI expansion (10W max./per slot)
- 1 x PCIe expansion (10W max./per slot)
- Add-on card length: 169mm max.

Power Requirements
- ATX power mode
- OnBoard DC to DC power support from +9 to 30VDC
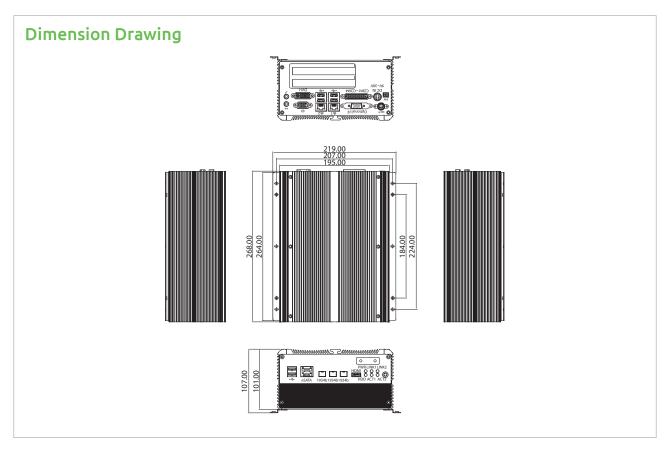- Optional power adapter

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

Construction
- Aluminum Chassis with fanless design

Dimension Drawing

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: 10% to 93% (non-condensing)
- Shock protection:
  HDD: 20G, 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 B
- UL/cUL
- e13

OS Support Lists

- Windows XP 32bits and 64bits
- Windows 7 32bits and 64bits

Ordering Information

Barebone

- **NISE 3500M2E (P/N: 10J00350003X0) RoHS Compliant**
  Intel® Core™ i7/i5 fanless system with one PCI expansion and
  one PCIex1 expansion slot

- **NISE 3500M2 (P/N: 10J00350006X0) RoHS Compliant**
  Intel® Core™ i7/i5 fanless system with two PCI expansion
  (MoQ is required)

- **19V, 120W non-medical grade AC/DC power adapter**
  w/ o power core (P/N: 7410120002X00)