



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
- 1 x Mini-PCIe socket with one external SIM card holder
- Support +9V to 30VDC power input; Support ATX power mode

Product Overview

A wireless-ready system, Utilizing 32nm Intel® Core™ i7/i5 processor, NISE 3520 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 3520 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, 1 x Mini-PCIe socket, 1 x SIM card holder, 1 x HDMI, 2 x GSM audio, 2 x PCI slot. NISE 3520 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

- NISB3500M
- 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
- Wireless Active LEDs
- 2 x Antenna holes
- 2 x USB 2.0 ports
- 1 x Line-out and 1 x Mic-in
- 1 x HDMI
- 1 x External SIM card holder

I/O Interface-Rear

- 2-pin Remote Power on/off switch
- +9V to 30VDC input
- 1 x PS/2 for Keyboard/Mouse

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

Device

- 1 x 2.5" HDD driver bay

Expansion

- 2 x PCI expansion (NISE 3520P2 only, 10W max./per slot)
- 1 x PCI & 1 x PCIe1 expansion (NISE 3520P2E only, 10W max./per slot)
- Add-on card length: 169mm max
- 1 x Mini-PCIe socket
 - Default: support optional 3.5G module
 - Option: support optional Wi-Fi module

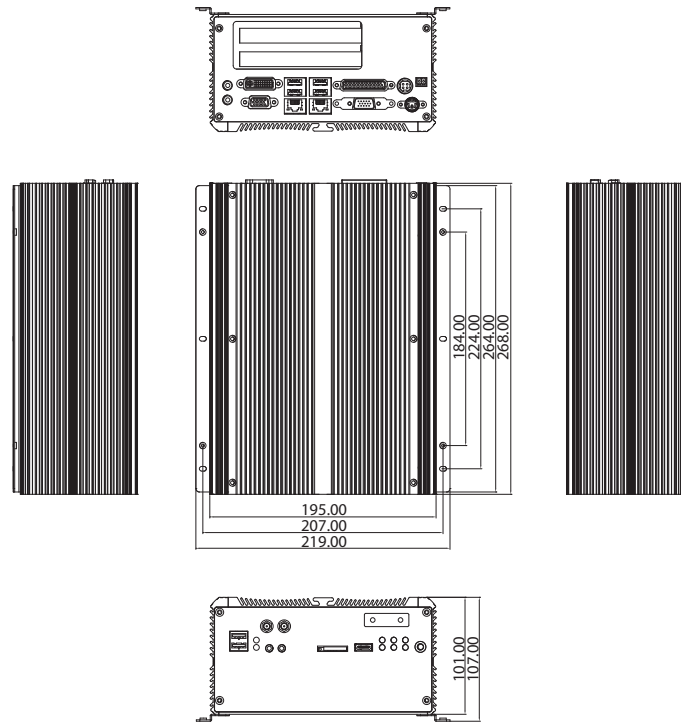
Power Requirements

- ATX power mode
- OnBoard DC to DC power support from 9V to 30VDC
- Optional power adapter

Dimensions

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

Dimension Drawing



Construction

- Aluminum Chassis with fan-less 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: 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

OS Support Lists

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

Ordering Information

Barebone

- **NISE 3520P2 (P/N: 10J00352002X0) RoHS Compliant**
Intel® Core™ i7/i5 Fanless System with two PCI Expansion slot
- **NISE 3520P2E (P/N: 10J00352003X0) RoHS Compliant**
Intel® Core™ i7/i5 Fanless System with one PCI and one PCIe1 Expansion slots
- **19V, 120W AC/DC Power Adapter w/ o power core (P/N: 7410120002X00)**