# **NISE 3520P2/P2E**





## **Main Features**

- Support Intel<sup>®</sup> Core<sup>™</sup> i7/i5 socket processor
- Mobile Intel® QM57 PCH
- Dual Intel® Gigabit Ethernet ports; Support WoL and PXE
- Dual VGA or VGA/DVI or DVI/ HDMI Independent Display
- 3x RS232 and 1x RS232/422/485 with Auto Flow Control
- 1x Mini-PCle 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, 5x COM ports, 6x USB, 8x GPIO, 1x Mini-PCle socket, 1x SIM card holder, 1x HDMI, 2x GSM audio, 2x 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**

- 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
- Wireless Active LEDs
- 2x Antenna holes
- 2x USB2.0 ports
- 1x Line-out and 1x Mic-in
- 1x HDMI
- 1x External SIM card holder

#### I/O Interface-Rear

- 2-pin Remote Power on/off switch
- +9V to 30VDC input
- 1x PS/2 for Keyboard / Mouse
- 1x DB15 male connector for GPIO (4x input and 4x output)
- 1x DB44 Serial Port for 4x RS232 (COM2: RS232/422/485 with auto flow control)
- 2x GbE LAN ports; Support WoL and PXE
- 4x USB2.0 ports
- 1x DB15 VGA port
- 1x DVI-I port
- 1x Line-out and 1x Mic-in

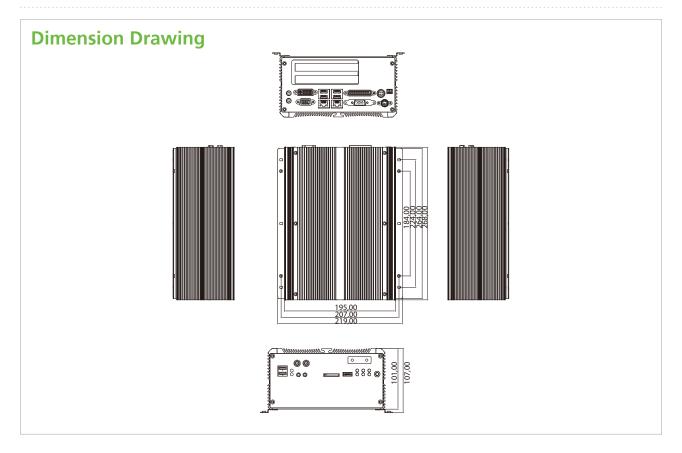
#### Device

• 1x 2.5" HDD driver bay

#### Expansion

- 2x PCI expansion (NISE 3520P2 only, 10W max./per slot)
- 1x PCI & 1x PCIe x1 expansion (NISE 3520P2E only, 10W max./per slot
- Add-on card length: 169mm max
- 1x 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 268 mm (D) x 101mm (H) (7.7" x 10.5" x 3.98")

#### 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 @ 5~500 Hz according to IEC60068-2-64
- Sinusoidal: 0.5Grms @ 5~500 Hz according to IEC60068-2-6

# Certifications

- EN60601
- CE approval
- FCC Class B

# **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 PCIe x1 Expansion slots
- 19V, 120W AC/DC Power Adapter w/o power core (P/N: 7410120002X00)

**COM** Fanless Compute