# NISE 3140M2E

**Intel® Core™ 2 Duo Fanless System with IEEE 1394b, 1 x PCI and 1 x PCIe x1 Expansion Slots**

## Main Features

- Support Intel® Core™ 2 Duo / Celeron® processor
- Intel® GM45 chipsets
- Dual Intel® 82574L Gigabit Ethernet ports
- Dual VGA or VGA/DVI Independent Display
- 3 x RS232 and 1 x RS232/422/485 with Auto Direction Control
- One external locked CF socket
- Dual IEEE1394b ports
- On-board DC to DC power design to support 16V to 30V DC power input
- Support ATX power mode and PXE / WOL / LAN Teaming

## Product Overview

Utilizing the Intel® GM45 enhanced chipsets, NISE 3140M2E is highly scalable supporting a wide variety of Intel® Core™ 2 Duo and Celeron® processors. Using the Intel® graphics media accelerator 4500MHD, the rugged NISE 3140M2E delivers exceptional graphics performance with notable rates of data transfer. NISE 3140M2E provides a number of important features required by image processing operation, including dual-channel DDR3 memory, two Gigabit Ethernet LANs, auto-direction control on RS485 and optional IEEE1394b interface. On top of that, NISE 3140M2E supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, NISE 3140M2E of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment.

NISE 3140M2E is compliant with EN60601-1, a standard for medical grade computing system. In addition to industrial applications, NISE 3140M2E series also a perfect solution for healthcare equipments such as surgery recording system, medical inspection, medical research instrumentations, security control …etc.

## Specifications

### Main Board

- NISB 3140M
- Support Intel® Core™ 2 Duo Processor P8400 (3M Cache, 2.26 GHz, 1066 MHz FSB)
- Support Intel® Celeron® Processor 575 (1M Cache, 2.00 GHz, 667 MHz FSB)

### Main Memory

- 2x 240-pin DIMM, up to 4GB DDR3 800/1066 MHz SDRAM, un-buffered and non-ECC

### Chipset

- Intel® GM45 Graphics and Memory Controller Hub
- Featuring the Mobile Intel® Graphics Media Accelerator 4500MHD
- Intel® 82801IBM I/O Controller Hub

### I/O Interface-Front

- ATX power on/off switch
- HDD Access/Power status LEDs
- 1 x Front Access CF Card Socket
- 2 x USB2.0 ports
- Dual IEEE1394b ports

### I/O Interface-Rear

- 2-pin Remote Power on/off switch
- 16 ~ 30V DC input
- 1 x PS/2 for Keyboard/Mouse
- 1 x DB25 Parallel Port (Optional GPIO or LVDS interface)
- 1 x DB44 Serial Port for 4x RS232 (COM2: RS232/422/485 with Auto Flow Control)
- 2 x GbE LAN ports
- 4 x USB2.0 ports
- 1 x DB15 VGA port
- 1 x DVI-I Port (DVI-D + VGA)
- 1 x Speaker-out and Mic-in

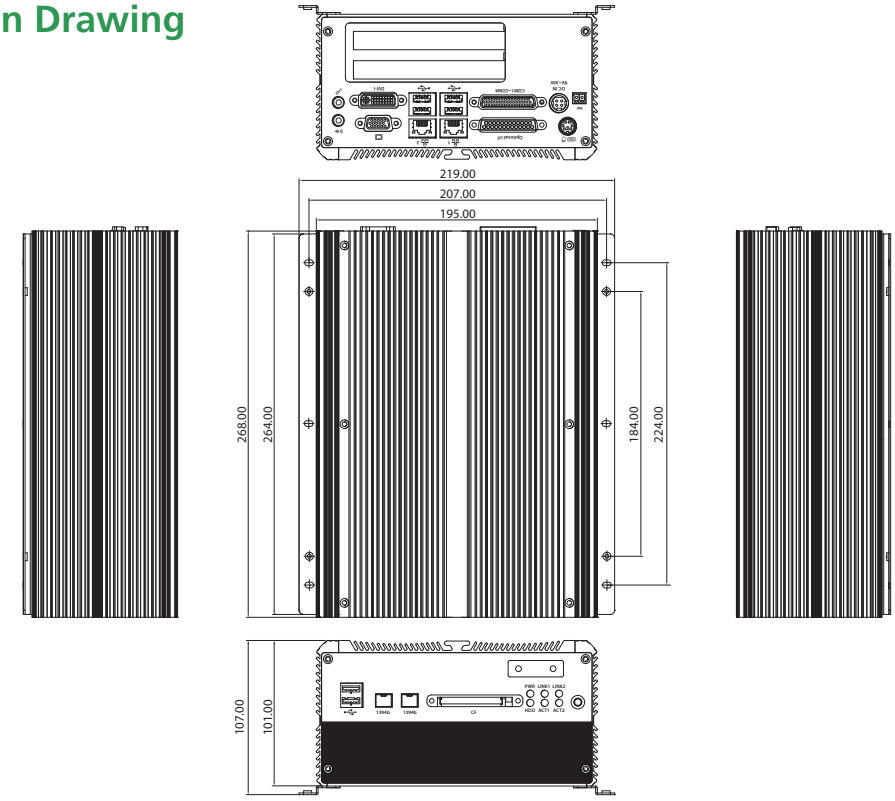
### Device

- 2 x 2.5" SATA HDD drive bay
- One external locked CF card socket

### Expansion

- One PCI Expansion
- One PCIe x1 Expansion
- Max. Support Add-on Card Length: 169mm

## Dimension Drawing




### Power Requirements
- ATX power mode
- On-board DC to DC power support from 16V 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)

### Certifications
- EN60601 Compliant
- CE approval
- FCC Class B

## Ordering Information

### Barebone
- **NISE 3140M2E (P/N: 10J00314008X0) RoHS Compliant**
  Intel® Core™ 2 Duo / Celeron® Fanless Bare-Bone system with One PCI and One PCIe x1
- **19V, 120W AC/DC medical grade power adapter w/o power cord (P/N: 7400120006X00)**


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