NISE 3140M

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 3140M 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 3140M delivers exceptional graphics performance with notable rates of data transfer. NISE 3140M 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 3140M supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, NISE 3140M of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment.

NISE 3140M is compliant with EN60601-1, a standard for medical grade computing system. In addition to industrial applications, NISE 3140M 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® 82801IEM (ICH9M-E) 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 (support WoL & LAN teaming)
- 4 x USB2.0 ports
- 1 x DB15 VGA port
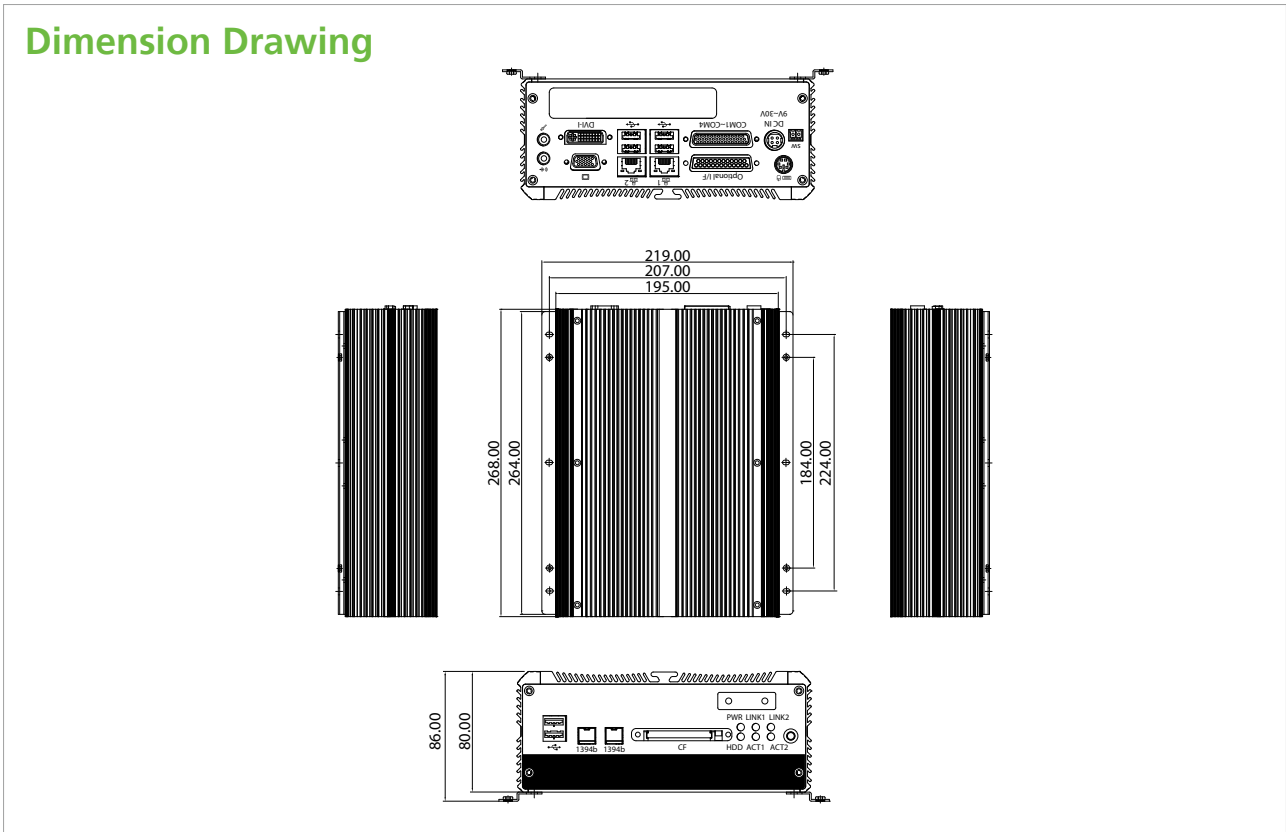- 1 x DVI-I Port (DVI-D + VGA)
- 1 x Speaker-out and Mic-in

Device
- 1 x 2.5" SATA HDD drive bay
- 1 x external locked CF card socket

Expansion
- One PCI Expansion (10W max./ per slot)
- Add-on card length: 169mm max.

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 80mm (H) (7.7" x 10.5" x 3.1")

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 IEC68-2-6

Certifications
- EN60601
- CE approval
- FCC Class B

Ordering Information

Barebone

- **NISE 3140M (P/N: 10J00314006X0) RoHS Compliant**
  Intel® Core™ 2 Duo / Celeron® Medical Grade Fanless Bare-Bone system with one PCI Expansion

- **19V, 120W AC/DC medical grade power adapter w/o power cord (P/N: 7400120006X00)**