NISE 3144

Intel® Core™ 2 Due PoE enable Fanless System with IEEE1394b, 4 x PoE interfaces and 1x PCI expansion

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
- 4x PoE ports
- Dual IEEE1394b ports
- Support 16V to 30V DC power input
- Support ATX power mode and PXE / WOL / LAN Teaming

Product Overview

NISE 3144 PoE enable fanless PC is designed specifically aims at high speed image-processing applications integrated such as video streaming, video surveillance, image mapping, visual inspection and face / feature recognition. Based on the Intel® GM45 chipsets, NISE 3144 is highly scalable supporting a wide variety of Intel® Core™ 2 Duo and Celeron® processors and also delivers high graphic performance with notable rates of data transfer.

NISE 3144 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, optional IEEE1394b interface and 4x PoE ports. On top of that, NISE 3144 supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, NISE 3144 of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment. The NISE 3144 integrated with PoE solution ease the difficulties of providing different power sources for devices such as IP camera in buses / police cars / sightseeing bus / school bus, VoIP telephones, RFID and so on. Thus, NISE 3144 is an ideal industrial solution for Inspection and surveillance applications by utilizing PoE power devices, for example, security control by PoE enable IP camera, logistic management by PoE enable RFID reader or Ethernet communication by PoE enable IP phones.

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
- 4 x ports PoE (NISE 3144F will be suggested if 4x ports PoE are running with class 3 power device)

Highlights on PoE ports
- IEEE802.3af compliant, deliver 15.4W per port
- Unmanaged switch function
- IEEE802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-negotiation Supported

Dimension Drawing
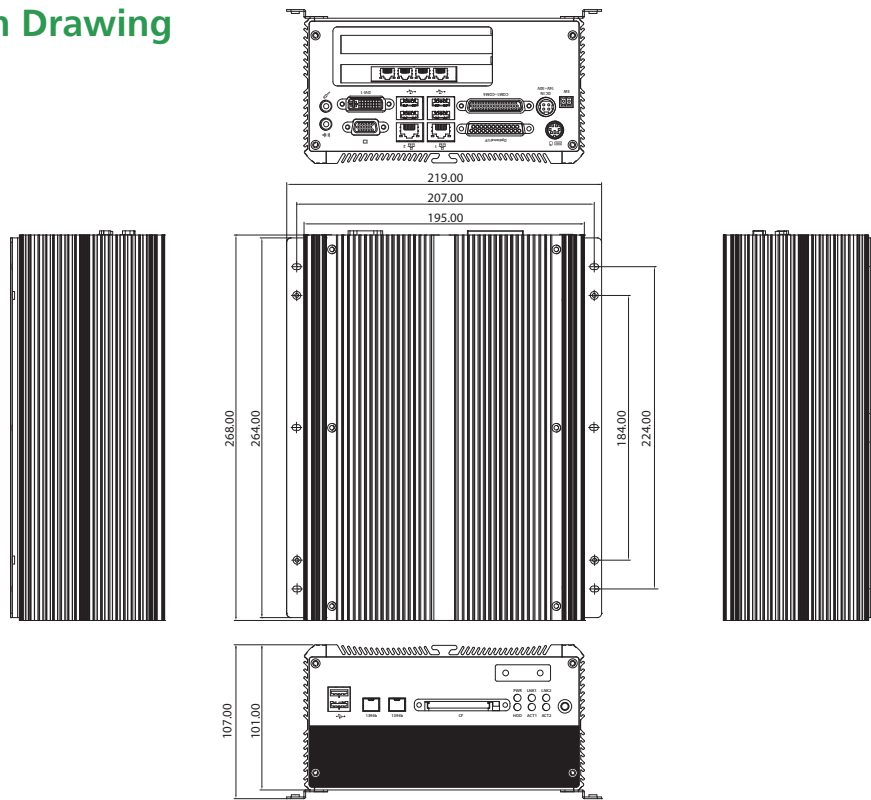
- Transfer performance: 14,880pps for Ethernet and 148,800pps for Fast Ethernet
- Transfer packet size: 64 to 1522bytes

Supported OS
- Windows NT
- Windows XP
- Linux Kernnel 2.4 & 2.6

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

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

Power Requirements
- ATX power mode
- On-board DC to DC power support from 16V 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 fanless design

Environment
- Operating temperature:
  Ambient with air flow: -5°C ~ 50°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
- CE approval
- FCC Class A

Ordering Information

Barebone

- **NISE 3144 (P/N: 10J00314400X0) RoHS Compliant**
  Intel® Core™ 2 Duo / Celeron® PoE enable Fanless Bare-Bone system with 4x PoE ports

- **24V, 180W AC/DC power adapter w/o power cord (P/N: 7400180002X00)**