



Main Features

- Support Intel® Core™ 2 Duo/ Celeron® processor
- Intel® GM45 chipsets
- Dual Intel® 82574L Gigabit Ethernet ports; Support WoL, teaming and PXE
- Dual VGA or VGA/DVI Independent Display
- 3x RS232 and 1x RS232/422/485 with Auto Direction Control
- One external locked CF socket
- OnBoard DC to DC power design to support +16 to 30VDC power input
- Support ATX power mode

Product Overview

Utilizing the Intel® GM45 chipsets, NISE 3140P2/P2E 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 3140P2/P2E delivers exceptional graphics performance with notable rates of data transfer.

NISE 3140P2/P2E 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 interface. On top of that, NISE 3140P2/P2E supports dual independent displays through 2x VGA, DVI or LVDS outputs. Housed in a robust aluminum chassis, NISE 3140P2/P2E of fanless design offers noise-free, ultra reliable operating in the most demanding of industrial environment.

The NISE 3140P2/P2E series is an idea system for industrial automation, machine automation, Automated Optical Inspection (AOI), visual inspection, video surveillance, image mapping and face recognition markets.

Specifications

Main Board

- NISB 3140
- 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 (ICH9M) I/O Controller Hub

I/O Interface-Front

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

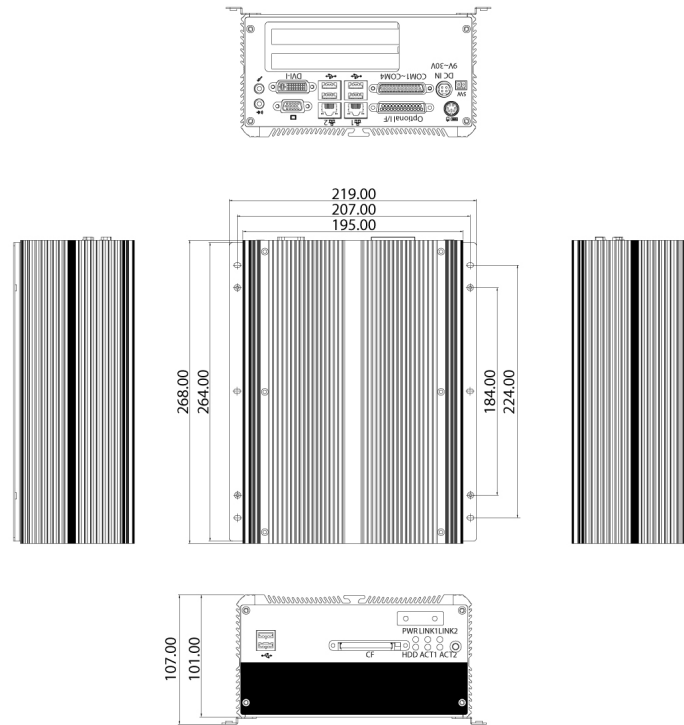
I/O Interface-Rear

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

Device

- 1x 2.5" SATA HDD drive bay
- 1x external locked CF card socket
- Optional power adapter

Dimension Drawing



Expansion

- Two PCI expansion (NISE3140P2 only, 10W max./ per slot)
- One PCI and one PCIe x1 expansion (NISE3140P2E only, 10W max./ per slot)
- Add-on card length support:
Max. 169mm x1 and 240mm x1 (with 2.5" HDD installed)
Max. 240mm x2 (without 2.5" HDD installed)

Power Requirements

- ATX power mode
- OnBoard DC to DC power support from +16 to 30VDC

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 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
- CF: 50G, 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

- CE approval
- FCC Class B

Ordering Information

Barebone

- **NISE 3140P2 (P/N: 10J00314002X0) RoHS Compliant**
Intel® Core™ 2 Duo / Celeron® Fanless Bare-Bone system with two PCI Expansion
- **NISE 3140P2E (P/N: 10J00314003X0) RoHS Compliant**
Intel® Core™ 2 Duo / Celeron® Fanless Bare-Bone system with one PCI and one PCIe x1 Expansions
- **19V, 120W AC/DC power adapter w/o power cord (P/N: 7410120002X00)**