



Main Features

- Support Intel® Core™ 2 Duo/Celeron® processor
- Intel® GM45 chipsets
- Dual Intel® 82574L Gigabit Ethernet ports; Support WoL, teaming and PXE
- Dual DVI-D Independent display
- 5 x RS232 and 1 x RS232/422/485 with Auto Direction Control
- One External Locked CFast Socket (SATA Interface)
- Support +16 to 30VDC Power Input and ATX power mode
- Support ATX power mode

Product Overview

NISE 3142 fanless computer supports Intel® Core™ 2 Duo and Celeron® socket type processor. Upgraded with two DVI-D and CFast SATA interfaces, NISE 3142 transfers data faster than its predecessor NISE 3140 and can present high-definition images simultaneously in dual large independent displays. The feature makes NISE 3142 apt for eSOP.

Along with fanless design, it can adapt to filthy environments rife with greasy dusts. In addition, NISE 3142 with multiple I/O options is a future proof solution, which is ideal for applications within industrial automation, factory automation, automatic optical inspection, ATMs, public infotainment, in-vehicle signage, and surveillance as well as data acquisition.

Specifications

Main Board

- NISB 3142
- Support Intel® Core™ 2 Duo processor T9400 (6M cache, 2.53GHz, 1066MHz FSB)
- Support Intel® Core™ 2 Duo Processor P8400 (3M Cache, 2.26 GHz, 1066MHz FSB)
- Support Intel® Celeron® Processor 575 (1M Cache, 2.0GHz, 667MHz FSB)

Main Memory

- 2 x 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
- 1 x Front Access CFast Card Socket (SATA interface)
- 2 x USB2.0 ports

I/O Interface-Rear

- 2-pin Remote Power on/off switch
- 2-pin System signal

- +16 to 30VDC input
- 2 x DB9 COM5 & COM6, RS232
- 1 x DB44 Serial Port for 4 x RS232 (COM2: RS232/422/485 with Auto Flow Control)
- 2 x GbE LAN ports (support WoL, PXE & LAN teaming)
- 4 x USB2.0 ports
- 2 x DVI-D Port
- 1 x Line out & 1 x Mic-in

Storage

- 1 x 2.5" SATA HDD drive bay
- 1 x external locked CFast card socket (SATA interface)

Expansion Slot

- One PCI expansion (NISE 3140 only, 10W max./per slot)
- Add-on card length:
 - 169mm max. with HDD installed
 - 240mm max. without HDD installed

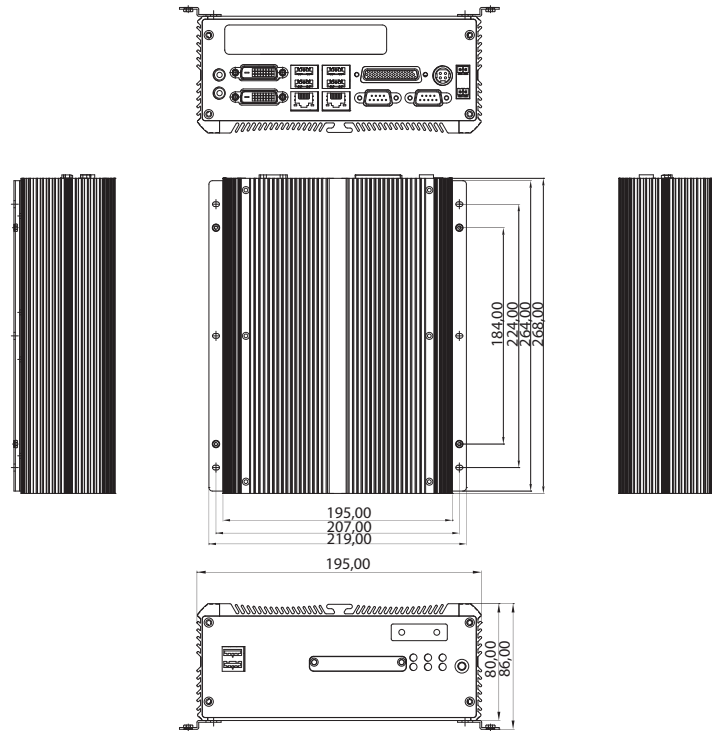
Power Input

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

Dimensions

- 195mm (W) x 268mm (D) x 80mm (H) (7.7" x 10.5" x 3.1")

Dimension Drawing



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
 - CFast: 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 A

OS Support Lists

- Windows XP 32bits and 64bits
- Windows 7 32bits and 64bits

Ordering Information

Barebone

- **NISE 3142 (P/N: 10J00314200X0) RoHS Compliant**
Intel® Core™ 2 Duo/Celeron® fanless barebone system with dual DVI-D display output and one PCI expansion slot
- **19V, 120W AC/DC power adapter w/o power cord (P/N: 7410120002X00)**