



## Main Features

- Support Intel® Core™ 2 Duo/ Celeron® processor
- Intel® GM45 chipsets
- Dual Intel® 82574L Gigabit Ethernet ports
- 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 16V to 30V DC power input
- Support ATX power mode and PXE/ WoL/ LAN teaming

## 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

- NISB3142
- 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

- 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 I/O (ICH9M-E) Controller Hub

### I/O Interface-Front

- ATX power on/off switch
- HDD access/power status LEDs

- 1x front access CFast card socket (SATA interface)
- 2x USB2.0 ports

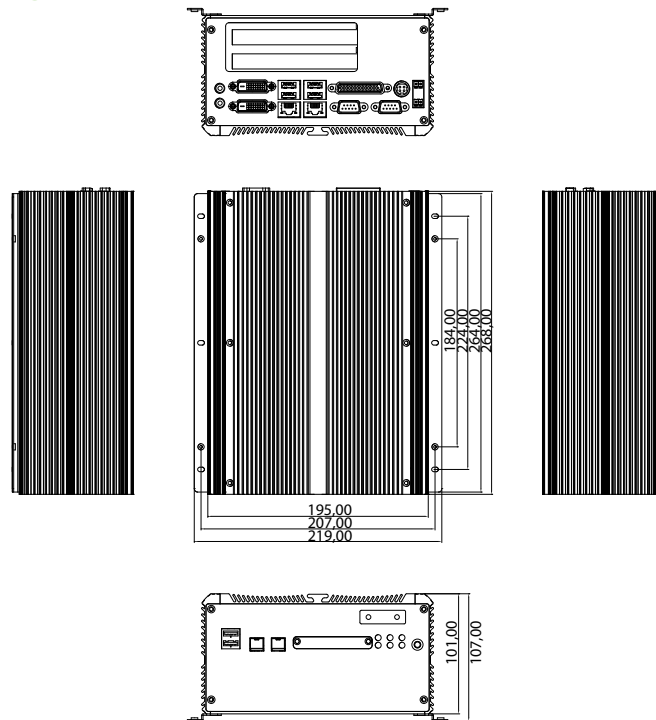
### I/O Interface-Rear

- 2-pin remote power on/off switch
- 2-pin system signal
- 16~30V DC input
- 2x DB9, COM5 & COM6, RS232
- 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
- 2x DVI-D port
- 1x speaker-out and Line-in

### Storage

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

## Dimension Drawing



### Expansion Slot

- One PCI expansion (10W max./ per slot)
- One PCIe x1 expansion (10W max./ per slot)
- Add-on card length:  
169 mm max. with HDD installed

### Power Input

- ATX power mode
- On-board DC to DC power support from 16V to 30VDC
- Optional power adapter

### Dimensions

- 195mm(W)x 268mm(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)
- 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

- CE approval
- FCC Class A

## Ordering Information

### Barebone

- **NISE 3142M2E (P/N: 10J00314203X0) RoHS Compliant**  
Intel® Core™ 2 Duo / Celeron® fanless barebone system with dual DVI-D display output, one PCI expansion and one PCIe x1 expansion slots
- **19V, 120W AC/DC power adapter w/o power cord (P/N: 7410120002X00)**