



## Main Features

- Support Intel® Pentium® M/ Celeron® M Processors
- Intel® 910GML chipsets
- Dual 10/100/1000 LAN Ports
- USB2.0/VGA/DVI Interface
- 3x RS232 and 1x RS232/422/485 via DB44 Connector
- On-board DC to DC Power Designed to Support +16 - 30V DC power input
- Supports ATX Power Mode and PXE/WOL
- One PCI Expansion Slot

## Product Overview

Featuring Intel® 910GML & ICH6M chipsets, the NISE 3100e fanless PC supports Intel's Pentium® M/ Celeron® M processor with 400 MHz FSB and DDR2 400 memory up to 2 GB. The rugged NISE 3100e fanless PC is designed for space-critical application requires extreme reliability, low-power consumption and versatile I/O configuration. With one PCI Expansion Slot, the versatile NISE 3100e fanless PC offers a wide connection option of I/O ports located at both the front and the rear of the unit. For added flexibility, the NISE 3100e also boasts three RS232 ports, one RS232/422/485 port and one PCI Expansion Slot. For data storage, the NISE 3100e provides one CompactFlash socket and one 2.5" HDD drive bay. The system supports ATX power supply and can accept a wide range of power supplies from 16 to 30 VDC.

Housed in a compact 195 mm x 268 mm x 80 mm heavy-duty aluminum chassis, the NISE 3100e is designed for reliable, maintenance-free industrial computing. The NISE 3100e fanless PC offers a cost-effective solution for a multitude of mission-critical embedded computing applications in automation, machine control, self-service and POS systems.

## Specifications

### Main Board

- NISB3100
- Support Intel® Pentium® M/ Celeron® M processors
- Supports Low Voltage and Ultra Low Voltage Intel® Pentium® M or Celeron® M
- Supports 400 MHz FSB CPUs only
- Intel® 910GML and ICH6M chipsets

### Main Memory

- 2 x 240-pin DDR2 DIMM socket, up to 2GB un-buffered non-ECC DDR2 400 SDRAM module

### Expansion

- Supports one 32-bit/33 MHz PCI card (10W max./ per slot)
- PCI card: Max. 169mm in length with HDD installed

### I/O Interface-Front

- Optional customized logo
- HDD Access/Power/LAN status LEDs
- 2 x USB2.0 ports
- ATX Power on/off switch

### I/O Interface-Rear

- 1 x PS/2 Keyboard/ Mouse
- 4 x USB2.0 ports/ 4x Serial port
- 1 x Audio Mic-in and 1x Speaker-out
- 1 x DVI-D interface
- 2 x 10/100/1000 LAN
- 1 x DB15 VGA connector
- 16 ~ 30V DC power input
- 1 x 2-pin connector output for remote power on/off switch

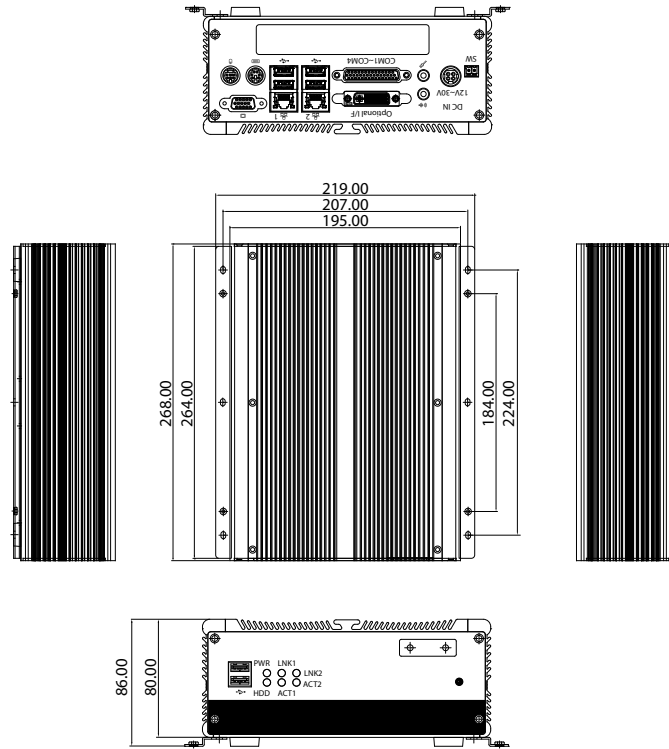
### Device

- 1 x On-board Internal Compact Flash socket
- 1 x Internal 2.5" SATA HDD driver bay

### Power Requirements

- DC to DC power designed on board, support from 16V to 30V DC input (Max: 120 Watts)
- 1 x Optional 120 W AC adapter (lockable)
  - Power input: 100 to 240V AC 2 A 50/60 Hz
  - Power output: 19V DC

## Dimension Drawing



### Dimensions

- 195mm (W) x 268mm (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

- CE approval
- FCC Class A

## Ordering Information

### Barebone

- **NISE 3100e (P/N: 10J00310027X0)**  
Intel® Pentium® M/ Celeron® M Fanless Bare-Bone System  
1 x PCI Expansion Slot
- **19V, 120W AC/DC power adapter w/o power cord (P/N: 7410120002X00)**