

# NICE 3100P2



Intel® Pentium® M/Celeron® M Fanless System w/PCI-Expansion Slot x 2



## Main Features

- Supports Intel® Pentium® M/Celeron® M Processors with 400 MHz FSB Intel® 852GM Chipset
- Dual 10/100 Fast Ethernet LAN Ports
- USB 2.0 x 6/VGA/LVDS/TV-Out Interface
- Support two 32-bit/ 33MHz PCI Cards
- Three RS232 and one RS232/422/485 via DB44 connector
- On-board DC to DC Power Designed to Support +12 V DC to +30 V DC Power Input

## Product Overview

Based on Intel's Pentium M/Celeron M processor with 400 MHz FSB, the rugged NICE 3100 is designed for space-critical applications requiring fanless operation, extreme reliability, low-power consumption and versatile I/O configuration. The NICE 3100 offers a cost-effective solution for a multitude of mission-critical embedded computing applications in automation, machine control, POS systems and transportation.

Housed in a compact 195 mm x 268 mm x 107 mm heavy-duty aluminum chassis, the NICE 3100's fanless design, makes for reliable, maintenance-free industrial computing. This versatile system gives users a wide connection options with a range of I/O ports located at both the front and the rear of the unit. I/Os include two 10/100 Ethernet LAN ports, six USB 2.0 ports (two front, four rear), VGA, TV-out interface and direct LVDS output via a DB44 connector. For added flexibility, the NICE 3100 also boasts three RS232 ports, one RS232/422/485 port and two PCI expansion slots.

The NICE 3100 supports DDR 200/266 memory up to 2 GB and provides one CompactFlash socket and one 2.5" HDD drive bay. The System also boasts a wide range of power supplies from 12 V DC to 30 V DC.

## Specifications

### Main Board

- EBC 573FL(LF)
- Support Intel® Pentium® M processors in 478-pin, Micro-FCPGA package from 1.6 to 1.8 GHz with 1 MB or 2 MB L2 cache
- Support Intel® Celeron® M processors in 478-pin, Micro-FCPGA package from 1.3 to 1.5 GHz with 512 KB or 1 MB L2 cache
- Supports Low Voltage and Ultra Low Voltage Intel Pentium M or Celeron M processors in 479-ball, Micro-FCBGA packages
- Supports 400 MHz FSB CPUs only
- Intel® 852GM and ICH4 chipset

### Main Memory

- Two 184-pin DDR 200/266 DIMM sockets, up to 2 GB unbuffered non-ECC DDR SDRAM

### I/O Interface

- Front I/O Ports
- Optional customized logo
- HDD Access/Power/LAN status LEDs
- USB 2.0 x 2 ports
- Rear I/O Ports
- PS/2 Keyboard/Mouse x 1
- USB 2.0 x 4 ports
- Serial ports x 4

- Audio Mic-in x 1 and Speaker-out x 1
- Dual pixel LVDS interface x 1
- 10/100 Ethernet LAN x 2
- VGA connector x 1
- S-Video TV-Out x 1
- Power On/Off switch x 1

### Device

- On-board CompactFlash socket x 1

- Internal 2.5" HDD drive bay x 1

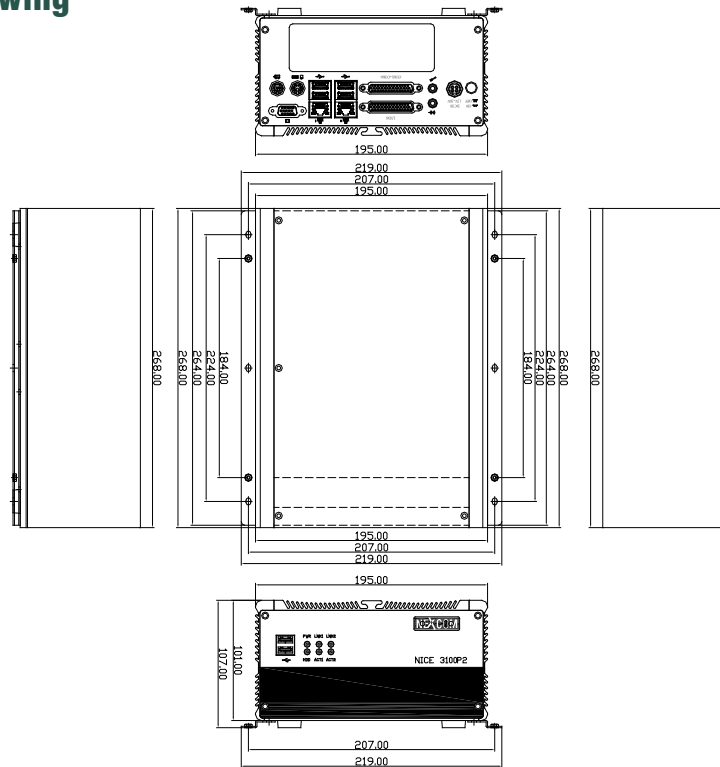
### Expansion Slot

- Supports two 32-bit/33 MHz PCI Card
- PCI Length support:
  - 160 mm (When 2.5" HDD installed)
  - 240 mm (When no HDD is installed)

### Power Input

- DC to DC power designed for on-board support of 12 V DC to 30 V DC (Max: 120 Watts)
- External 120 W AC adapter x 1
- Power input: 100 to 240 V AC 2 A 50/60 Hz
- Power output: 24 V DC

## Dimension Drawing



### Dimensions

- 195 mm (W) x 268 mm (D) x 107 mm (H) (7.68" x 10.56" x 4.21")

### Construction

- Aluminum chassis with fanless design

### Environment

- Operating temperature:
  - Ambient with air flow : 0°C to 40°C
  - NICE 3100 Tcase ( Surface Temperature of Chassis)
    - 5°C to 45°C (W/HDD)
    - 10°C to 50°C (W/CF card only)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

### Certifications

- CE approval
- FCC

## Ordering information

- **Barebone**  
**NICE3100P2 (P/N: 1J3100P201X0)** RoHS Compliant  
Support Intel Pentium M Celeron M Fanless Bare-Bone System  
PCI Expansion Slot x 2, M/B: EBC 573FL(LF)  
LAN Boot (PXE) Support by Ethernet change to 82551QM