NICE 3100

NEXCOM

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

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 /VGA/LVDS/TV-Out Interface

- 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 80 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 one PCI expansion slot.

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
- 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® 852GME and ICH4 chipset

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

I/O Interface
- Front I/O Ports
  Customized logo(Optional)
  HDD Access/Power/LAN status LEDs
  2 x USB 2.0 ports
- Rear I/O Ports
  1 x PS/2 connector
  4 x USB 2.0 ports
  4 x Serial ports

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

Device
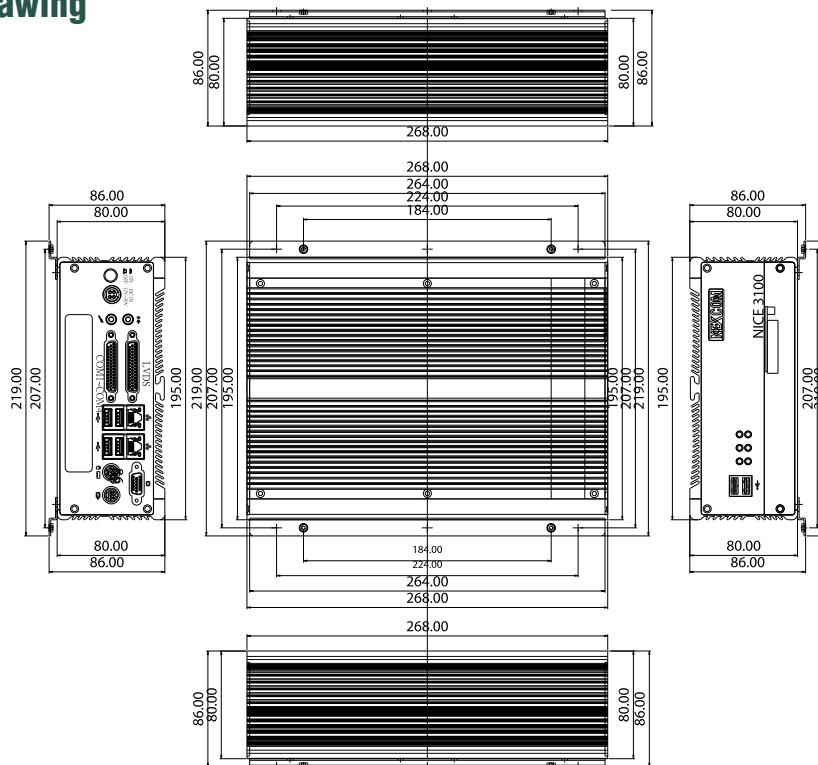- 1 x On-board CompactFlash socket
- 1 x Internal 2.5" HDD drive bay

Expansion Slot
- Supports one 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)
- 1 x External 120 W AC adapter
- Power input: 100 to 240 V AC 2 A 50/60 Hz
- Power output: 24 V DC

NEXCOM   **Fanless Compact Box Computer**

Dimension Drawing

Dimensions

♦ 195 mm (W) x 268 mm (D) x 80 mm (H)
7.68"(W) x 10.56"(D) x 3.15"(H)

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 40°C (W/HDD)
-10°C to 45°C (W/CF card only)
♦ Storage temperature: -20°C to 80°C
♦ Relative humidity: 10% to 90% (Non-condensing)

Certifications

♦ CE approval

Ordering information

♦ **Barebone**
NICE3100(LF) (P/N: 1J00310000X0) RoHS Compliant
Support Intel Pentium M Celeron M Fanless Bare-Bone System
1 x PCI Expansion Slot, M/B: EBC 573FL(LF)
LAN Boot (PXE) Support by Ethernet change to 82551QM
♦ **w/Celeron M 1.5 GHz**
NICE3100(LF)-370 (P/N: 1J00310008X0) RoHS Compliant
Intel® Celeron® M 1.5 GHz CPU / 852GM Fanless System
1 x PCI Expansion Slot, M/B: EBC 573FL(LF)
LAN Boot (PXE) Support by Ethernet change to 82551QM
♦ **w/Pentium M 1.6 GHz**
NICE3100(LF)-160 (P/N: 1J00310006X0) RoHS Compliant
Intel Pentium M 1.6 GHz CPU / 852GM Fanless System
1 x PCI Expansion Slot, M/B: EBC 573FL(LF)
LAN Boot (PXE) Support by Ethernet change to 82551QM

♦ **w/ 600 MHz CPU**
NICE3100(LF)-C65 (P/N: 1J00310001X0) RoHS Compliant
Intel Celeron M 600 MHz CPU w/512KB L2 Fanless System
1 x PCI Expansion Slot, M/B: EBC 573FL(LF)-C65
LAN Boot (PXE) Support by Ethernet change to 82551QM