NICE 3200

Intel® Pentium® M/Celeron® M Fanless System w/VGA
/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB 2.0/LAN

RoHS Compliant

Main Features

- Intel® Pentium® M/Celeron® M Based Fanless Design
- Two RS232 and Two RS422/485 (Automatic Flow Control and Isolation)
- Type I/II PC Card (PCMCIA)
- CompactFlash Socket, VGA, USB Port, LPT, KB, Mouse, Ethernet and Audio
- Single DC input, Voltage From +9 V to +36 V
- PC/104 Plus Connectors for Both PCI and ISA Interface
- Optional Chassis Upgrade Kit wtih easy expansion solution
- NVRAM Socket reserved for optional Memory Backup SRAM

Product Overview

The NICE 3200 fanless system with aluminum chassis targets industrial automation applications such as logistics, field controllers, data acquisition, equipment PC, access control and others. There are some special requirements under these definitions, for example, more serial ports for legacy device connection that includes two RS422/RS485 interfaces with Automatic Flow Control, ±15 KV ESD protected and Isolation (Optical Isolation, Min 2 KV) through a 10-pin screw terminal connector. Furthermore, an optional NVRAM socket is reserved for memory backup SRAM, which offers optional dedicated plug-in NVRAM memory.

Apart from the designed-in features such as CompactFlash socket, VGA, USB Port, LPT, KB, mouse, Ethernet and audio interface, there are extra user-friendly features such as Type I/II PC Card (PCMCIA) support which provides PC card add-on module to enhance the overall solution and two LEDs that connect to GPIO that are programmable for alarms or other purposes defined by a developer. An on-board power control circuit accepts a wide range single input DC power supply voltages from +9 V to +36 V that allow the NICE 3200 Series to meet most application requirements in the industrial field.

The NICE 3200 system design offers a expansion kit which is available on request and an ODM basis. Typical utilization of 2nd floor space on top of the original base enclosure can include a slim-type CD-ROM, PC/104, PCI 104 or PC/104 Plus modules that offer customer-defined I/Os. The maximum height of the expansion kit combined with base enclosure is around 2U. The NICE 3200 Intel Pentium M/Celeron M platform is a great system for when price and performance and both needed.

Specifications

Main Board
- ICES 101 ETX Module
- Supports ETX Module with Celeron M 600 MHz w/512 KB L2 Cache, VGA/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN Interface

Main Memory
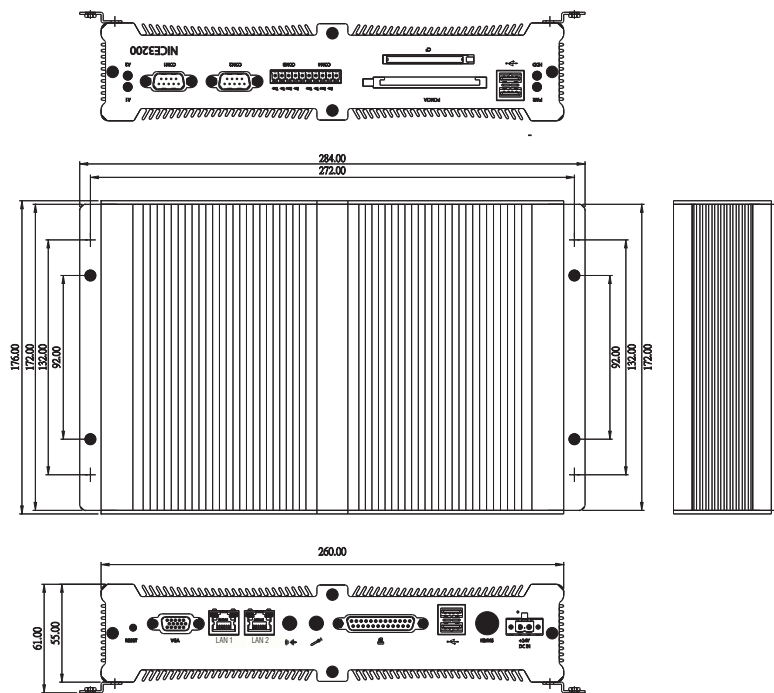- One 200-pin SODIMM socket for up to 1 GB Non-ECC Non-Registered DDR SDRAM memory.

Device
- Front Access PCMCIA socket x 1/CompactFlash socket x 1
- Internal CompactFlash socket x 1
- Internal 2.5" HDD Drive bay x 1

I/O Interface
- Front I/O Ports
- Power / HDD Status LEDs
- 2 LEDs, connect to GPIO, programmable for alarm or other application specific purposes
- PCMCIA Socket x 1
- External access CompactFlash socket (2nd CompactFlash)
- DB9 COM1 and COM2; Screw Terminal COM3 and COM4
- USB 2.0 x 2
- Rear I/O Ports
- RJ45 with LED connector x 2
- USB 2.0 Ports x 2, KB/Mouse connector
- +9 V to +36 V DC power input
- Power Reset Button
- VGA Connector (DB15)
- Audio-out and Mic-in Connector
- LPT Port x 1

NEXCOM

Fanless Compact Box Computer

Block Diagram

Expansion Slot

- PCI Expansion, PCMCIA x 1
- The NICE 3200 system design offers a expansion kit which is available on request and an ODM basis.
  Typical utilization of 2nd floor space on top of original base enclosure might include a slim-type CD-ROM or PC/104, PCI 104 or PC/104 Plus modules with defined I/Os.
  The maximum height of the expansion kit combined with base enclosure is around 2U.
- PC/104 (ISA), PCI 104(PCI) or PC/104 Plus module w/ defined I/O output

Dimensions

- 260 mm (W) x 176 mm (D) x 55 mm (H)

Environment

- Operating temperature:
- Ambient with air flow
  5°C to 40°C (w/HDD)
  -10°C to 50°C (w/CF Card Only)
- 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 Class A

Ordering information

- **NICE 3200-C65 (P/N: 1J00320000X0)**
  Celeron M 600 MHz w/512 KB L2 Based Fanless Controller
  Two RS232 and Two RS422/485 (Automatic Flow Control and Isolation)
  NVRAM Socket Reserved for Optional Memory Backup SRAM
  Type I/II PC Card (PCMCIA)
  CompactFlash Socket, VGA, USB Port, LPT, KB, Mouse, Ethernet and Audio
  Single Input DC power supply voltages from +9 V to +36 V

Optional
- **Power adapter(19V) w/ US type power cord (P/N:7400065001X0)**
- **Power adapter(19V) w/ Schuko type power cord (P/N:7400065002X0)**
- **Power adapter(19V) w/ UK type power cord (P/N:7400065003X0)**
- **NICE 3200/NICE 3220 DIY Kit (P/N: 5060900046X0)**