



Main Features

- ♦ On-board Intel® EP80579 Integrated Processor, 600 MHz
- ♦ Dual Marvell GbE LANs
- ♦ 1 x DB15 VGA port
- ♦ 2 x RS232, 4x USB
- ♦ 2 x CAN Bus 2.0b
- ♦ 1 x IEEE1394a
- ♦ +12V DC input

Product Overview

A EZ controller, NISE 110, features with 2x CAN Bus and 2x RS232 housed in a palm-size fan-less computing system of 85mm(W) x 132 mm(D) x 54mm(H). With a compact design, it is a perfect solution for space critical environment or an idea solution for local controller in industrial automation. Utilized with Intel Tolapai EP80579 integrated processor, NISE 110 provides two CAN bus 2.0b protocol for real-time control applications, which can support both 11 bit and 29 bit identifiers and support the bit rate up to 1Mbps with 40MHz clock frequency. NISE 110 is integrated with one IEEE1394a and offers dual Gbe LAN and 2x RS232 for communication interface. NISE 110 can be applied to the fieldbus mainly used in the automation industry for digital communications network. Taking the advantage of low power consumption (< 30W) and the 12V DC input, NISE 110 can be the best solution for machine automation like packaging, printing or molding machine, power management device, or building automation like elevator control and security signal control...etc.

Specifications

Main Board

- ♦ NISB 110

Main Memory

- ♦ 1x 200-pin SO-DIMM, up to 2GB DDR2 533/667 MHz SDRAM, un-buffered and non-ECC

Chipset

- ♦ On-board Intel® EP80579 Tolapai Integrated Processor, 600 MHz, 256KB Cache
- ♦ Discrete Graphic controller, support analogue display up to 1600 x 1200 resolution

I/O Interface-Front

- ♦ ATX power on/off switch
- ♦ 1 x IEEE1394a port
- ♦ 2 x USB2.0 ports
- ♦ 2 x RS232 ports
- ♦ 1 x PS/2 for keyboard/mouse
- ♦ HDD Access/Power status LEDs

I/O Interface-Rear

- ♦ 12V DC Input
- ♦ 2 x DB9 CAN Bus 2.0b
- ♦ 1 x DB15 VGA port
- ♦ 2 x USB ports
- ♦ 2 x Gigabit LAN ports

Device

- ♦ 1 x 2.5" SATA HDD drive bay

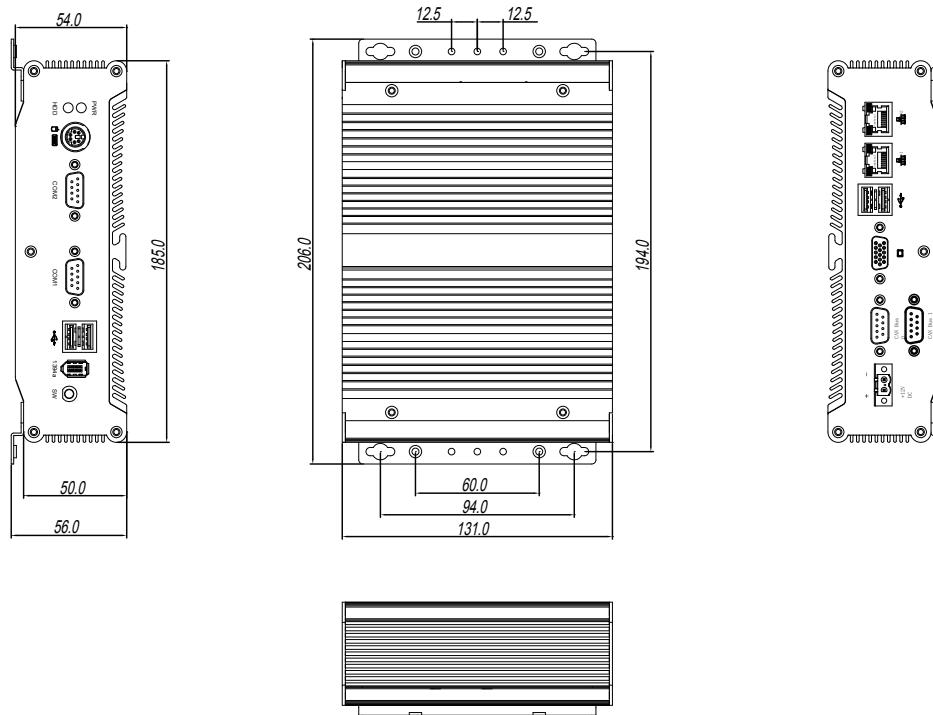
Highlight on CAN Bus

- ♦ Support CAN 2.0B protocol (support both 11-bit and 29-bit identifiers)
- ♦ Support bit rates up to 1Mbps
- ♦ Clock frequency of 40MHz
- ♦ Two DB9 connector

Power Requirements

- ♦ ATX power mode (Suspend mode is not supported)
- ♦ 12V DC input

Dimension Drawing



- Optional AC/DC Power Adapter

Validated OS

- Windows XPe
- Linux RedHat 5, Kernel 2.6.18-8.el5

Dimensions

- 185mm (W) x 131 mm (D) x 54mm (H) (7.28" x 5.2" x 2.13")

Construction

- Aluminum Chassis with fan-less design

Environment

- Operating temperature:
Ambient with air flow: 0°C ~ 50°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)

Certifications

- CE approval
- FCC Class A

Ordering Information

- **Barebone**
NISE 110 (P/N: 10J00011000X0) RoHS Compliant
Intel® EP80579 Fan-less System with 2x CAN bus
- **12V, 60W AC/DC power adapter w/o power cord**
(P/N: 7400060008X00)