NISE 90

Intel® Atom™ E620 0.6GHz DIN Rail Fanless System
with 512MB Memory on Board

Main Features

- On-board Intel® Atom™ E620 0.6GHz processor
- On-board DDR2 512MB memory chip
- 2x Intel GbE LANs
- 3x USB2.0 / 1x VGA / 3x Serial Ports / 1x CAN bus

- 8CH GPI and 8CH GPO
- Support 1x 2.5" HDD Drive Bay
- Support 12V and 24V DC input

Product Overview

Equipped with Intel® Atom™ E620 0.6GHz processor and Intel® Platform Controller Hub EG20T, the NISE 90 fanless computer features low power consumption of only 15W and an abundance of I/O options to meet the requirements of factory and industrial automation control.

Featuring fanless design, the NISE 90 is able to offer optimum reliability and performance. In addition, the NISE 90 is equipped with an abundance of I/O interfaces, such as GPIO, CAN BUS, 3x COM ports, two Intel GbE LAN and DC Input (either 12V or 24V DC) that provide flexibility for various application designs.

Specifications

Main Board
- On-board Intel® Atom™ Tunnel Creek E620 0.6GHz processor, 512K Cache
- On-board Chipset: Intel® EG20T

Main Memory
- On-board DDR2 512MB memory chip, unbuffered and non-ECC support

Storage Device
- 1x 2.5" SATA HDD drive bay for optional SSD or HDD
- Support optional SATA DOM, Horizontal type only

I/O Interface-Front
- 3x USB ports
- 2x RJ45 GbE LAN ports, Intel 82574L controller on board Support LAN teaming function
- 3x DB9 Serial ports
  COM1: Support RS232/422/485 (Selected on BIOS menu)
  COM2: Support RS232 only
  COM3: Support RS232 only

- 1x DB9 CAN Bus
  - Support CAN 2.0b protocol
  - Support both 11-bit and 26-bit identifiers
  - Support bit rates up to 1Mbps
  - Clock frequency of 40MHz

I/O Interface-Bottom
- 1x DB15 VGA port
- 1x DB15 male connector for 8CH General Purpose Input
- 1x DB15 male connector for 8CH General Purpose Output
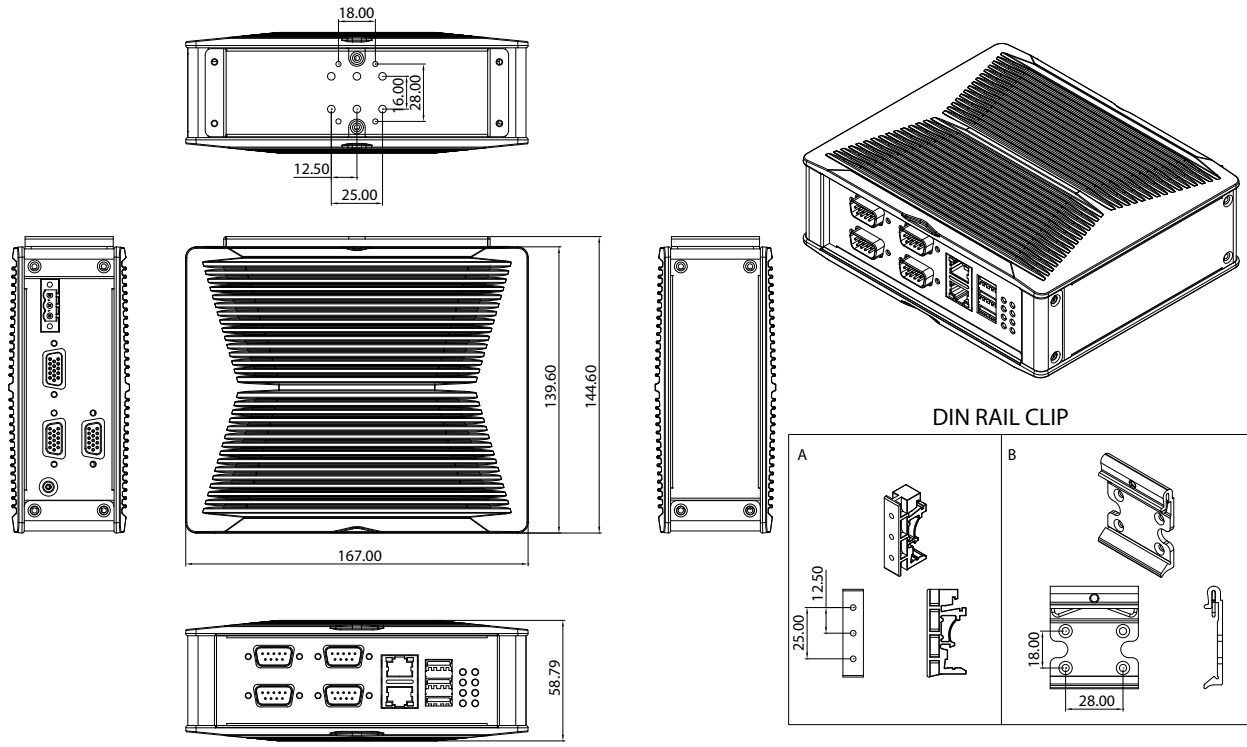- 3-pin DC input, support 12V DC input and 24V DC input
- 1x Power on/off switch

Supported OS
- Windows XP
- Windows Embedded Standard 2009
- Fedora 14 (Kernnel 2.6)

System Dimension
- 59mm (W) x 140mm (D) x167mm (H)

Fanless Computer
NEXCOM

Dimension Drawing

18.00
16.00
28.00
12.50
25.00
139.60
144.60
167.00
58.79

DIN RAIL CLIP

A
12.50
25.00

B
18.00
28.00

Construction
• Aluminum chassis with fanless design

Environment
• Operating temperature:
  Ambient with air flow: -5 ~ 55°C
  (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
• Storage temperature: -20 ~ 80°C
• Relative humidity: 10% ~ 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
• FCC Class A

Ordering Information

• **NISE 90 (P/N: 10J00009000X0)**
  DIN Rail fanless system with Intel® Atom™ E620 0.6GHz processor
  and DDR2 512MB memory on board

• **12V, 60W AC/DC power adapter w/o power core
  (P/N: 7400060014X00)**

• **Aluminum DIN Rail mounting kit (P/N: 88J00009001X0)**

• **Wallmount kit (P/N: 88J00009002X0)**