



Main Features

- Onboard Intel® Atom™ N270 processor, 1.6GHz
- 2 x RS232 and 2 x RS422/485 (Automatic Flow Control and Isolation)
- Type I/II PC Card (PCMCIA)
- PC/104 Plus Connectors for both PCI and ISA Interface
- CompactFlash Socket, VGA, USB Port, LPT, KB, Mouse, Ethernet and Audio
- Single DC Input Supply Voltage From +9 to +36 VDC
- Optional Chassis Upgrade Kit with Easy Expansion Solution
- NVRAM Socket Reserved for Optional Memory Backup SRAM

Product Overview

Designed for industrial automation applications, the NISE 3270 fan-less system is built with aluminum chassis and is configured with onboard Intel® Atom™ N270 1.6GHz with 533MHz FSB processor. The NISE 3270 is rich in I/O with four serial ports — two of them are RS422/RS485 ports with Automatic Flow Control, ±15 KV ESD protection, and isolation voltage of up to 2000 VDC. Moreover, the NISE 3270 has VGA, LPT, and audio interface onboard. In terms of power supply, the NISE 3270 accepts a wide range of input DC voltages from +9 to +36 VDC.

The NISE 3270 is highly expandable. It has an optional NVRAM socket reserved for memory backup SRAM. Additionally, the NISE 3270 has a CF socket and supports PC cards (PCMCIA). For further system expansion, an optional 2nd tier expansion kit, available through ODM or special request, can be installed. Typical utilization of 2nd tier space on top of the original base enclosure includes a slim-type CD-ROM, PC/104, PCI 104 or PC/104 Plus modules that offer customer-defined I/Os. With features above, the NISE 3270 with Intel® Atom™ based platform is a great entry-level industrial automation system offering great value and strong performance.

Specifications

Main Board

- ICES 170 ETX Module
- Supports ETX Module with Intel® Atom™ Processor, VGA/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN Interface

Main Memory

- 1 x 200-pin SODIMM socket for up to 1 GB Non-ECC Non-Registered DDR2 400/523 SDRAM memory

Expansion

- PCI Expansion, PCMCIA x 1
- The NISE 3270 system design offers an expansion kit which is available upon ODM request. Typical utilization of 2nd tier space on top of original base enclosure could 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

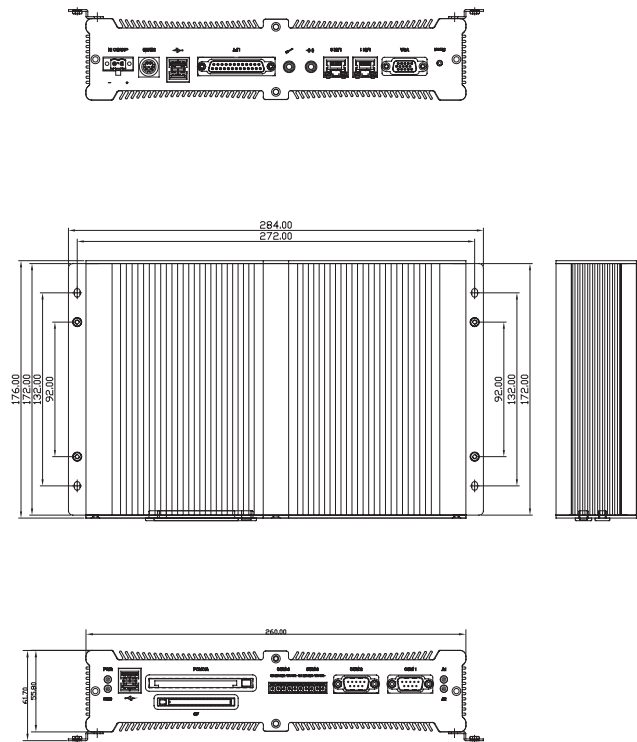
I/O Interface-Front

- Power/HDD status LEDs
- 2 LEDs, connect to GPIO, programmable for alarms or other purposes defined by developer
- 1 x PCMCIA socket
- Serial ports (Support RS-232); 1 x screw terminal for COM3 and COM4 support RS 422/485 (Automatic Flow Control and Isolation up to 2000 VDC)
- 2 x USB 2.0 ports

I/O Interface-Rear

- 2 x 10/100 Ethernet LAN
- 2 x USB 2.0 ports
- 1 x KB/Mouse connector
- +9 to +36 VDC power input
- Power reset button
- 1 x DB15 VGA connector
- 1 x Audio-out and 1 x Mic-in connector
- 1 x parallel port

Dimension Drawing



Device

- 1 x Front access PCMCIA socket
- 1 x Internal CompactFlash socket
- 1 x Internal 2.5" IDE HDD drive bay
- 1 x NVRAM socket

Dimensions

- 260 mm (W) x 176 mm (D) x 55 mm (H) (10.2" x 6.9" x 2.1")

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

Ordering Information

• NISE 3270-M512 (P/N: 10J00327000X0)

Intel® Atom™ Based fan-less Controller w/512MB memory; 2 x RS232 and 2 x 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 voltage from +9 to +36 VDC

• NISE 3270-M01G (P/N: 10J00327001X0)

Intel® Atom™ N270 Based fan-less Controller w/1G memory; 2 x RS232 and 2 x 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 voltage from +9 to +36 VDC

Optional

- Power adapter(19V) w/ US type power cord (P/N:7400065001X00)
- Power adapter(19V) w/ Schuko type power cord (P/N:7400065002X00)
- Power adapter(19V) w/ UK type power cord (P/N:7400065003X00)
- NISE 3200/NISE 3220 expansion DIY Kit (P/N: 5060900046X00)