

NIM354

Network module in StackPC-PCI form-factor



Overview

NIM354 Network Module in StackPC-PCI form-factor is designed for the use in data acquisition and processing embedded systems operating in harsh environments and based on the Ethernet TCP/IP interface, with a possibility to connect up to 4x devices with PoE (Power over Ethernet) support.

*StackPC: 4x1 PCI_Express, 6xUSB 2.0, 2xSATA II, 2xUSB 2.0, 2xSATA II, 2xRS-232, LPC, SMBus.

Features

- StackPC-PCI form-factor
- Integrated uncontrolled switch for 7 Ethernet channels
- QoS IEEE 802.1p, IPv4, IPv6, 4096 VLAN IDs with three safety levels of the 802.1Q standard
- PoE PSE 4 ports with galvanic isolation from other circuits, corresponding to IEEE 802.3af/at standards and compatible with the devices up to 25 W
- PoE PSE program control via SMBus (libraries for Windows, Linux and QNX)

Technical Specifications

Ethernet ports

- 4xLAN 10/100/1000 Mb/s
- 2xLAN 1000 Mb/s
- 1xMDI LAN 10/100/1000 Mb/s in the StackPC connector

Additional Interfaces

- SMBus

Power Supply

- NIM354-01 - 5 V and 48 V (for PoE)
- NIM354-02 - 5 V
- NIM354-03 - 36 - 57 V
- PoE power supply range from 22 V to 57 V
- Maximum power consumption: -6 W
- Control and monitoring of PoE PSE operation via SMBus

For supplying power to PoE devices it is recommended to use the PS352 Power Supply Module

OS compatibility

- Windows XP (Embedded)
- Linux 2.6
- QNX 6.5

*Interfaces depending on the version.

Operating temperature range

- From -40°C to +85°C

Vibration resistance

- 5 g

Single shock resistance

- 100 g

Multiple shock resistance

- 50G

MTBF

- 500 000 hours

Dimensions

- 96x94.5x22 mm

Weight

- No more than 90 g



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Ordering Information

NIM354 Configuration

NIM354 - 01

Versions

NIM354-01 2×LAN 1000 Mb/s, 4×LAN 10/100/1000 Mb/s with PoE,
1×MDI LAN 10/100/1000 Mb/s, power supply 5 V and 48 V

NIM354-02 2×LAN 1000 Mb/s, 4×LAN 10/100/1000 Mb/s,
1×MDI LAN 10/100/1000 Mb/s, power supply 5 V;

NIM354-03 2×LAN 1000 Mb/s, 4×LAN 10/100/1000 Mb/s with PoE,
power supply 36-57 V

Options (xx version)

Conformal coating

Conformal coating option is available for all module versions.

Delivery checklist

NIM354 delivery checklist contains:

1. NIM354 Network Module
2. Installation kit: cable connector parts, jumpers
3. Package

Corporate Offices

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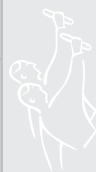
ISO 9001:2008
EC.C.0.02.01.000823-12

READY FOR



RoHS

Ver. 1.12.2015
Product specifications are subject to change without notice



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