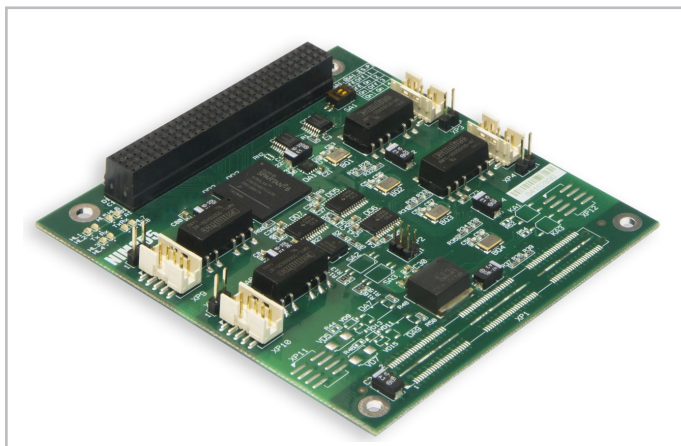


NIM355

StackPC-PCI Interface Module



Overview

NIM355 Interface Module is implemented in accordance with the StackPC-PCI standard and is designed for the use in embedded systems with CAN networks and represents a 4-channel CAN-interface module, which makes it possible to additionally connect up to 4 digital I/O lines and 4 digital output lines.

Features

- PCI System Bus: 32 bit/33 MHz
- 4×CAN channels, 4×Digital Input Channels, 4×Digital Output Channels
- Compatibility with OS: Windows XPe, Linux 2.6.x, QNX 6.5
- Dimensions: no more than 90,2×95,9×23,5 mm
- Weight: no more than 120 g.
- Operating temperature range: -40...+85°C
- Power supply: power supply voltage of +5 V ± 5%, and current consumption: no more than 300 mA
- MTBF: no less than 170 000 hours

Technical Specifications

PCI System Bus

- 32 bit/33 MHz

CAN Channels

- Number of channels: 4
- Type of CAN controller: PHILIPS SJA 1000T
- Protocol specification: 2.0A (standard-frame, 11-bit ID) and 2.0B (extended-frame, 29-bit ID)
- Clock frequency of controllers: 16 MHz
- Transfer rate: up to 1 Mb/sec
- Galvanic insulation of channels: up to 2500 V DC

Digital Input Channels

- Number of channels: 4
- Output voltage: 24V
- Logical 1 level: from 16 V to 30 V
- Logical 0 level: from 0 to 5,5 V
- Intensity of input current: ≤ 10 mA, at input voltage of 24 V
- Galvanic insulation of channels: up to 500 V
- There are pulse interference blanking elements (for impulse interference exceeding 30 V) between input lines of each channel

Digital Output Channels

- Number of channels: 4
- Type of channel output: potential-free contact
- Maximum switching current level: up to 48 V
- Maximum switching current intensity in each channel: up to 0.6 A
- Galvanic insulation of channels: up to 500 V
- There are pulse interference blanking elements (for impulse interference exceeding 48 V) between input lines of each channel.

Power

- Power supply voltage: +5 V ± 5%
- Maximum current: no more than 4 A
- Current consumption: no more than 300 mA

Operating temperature range

- -40...+85°C

Dimensions

- No more than 90,2×95,9×23,5 mm.

Module weight

- No more than 120 g

Software compatibility

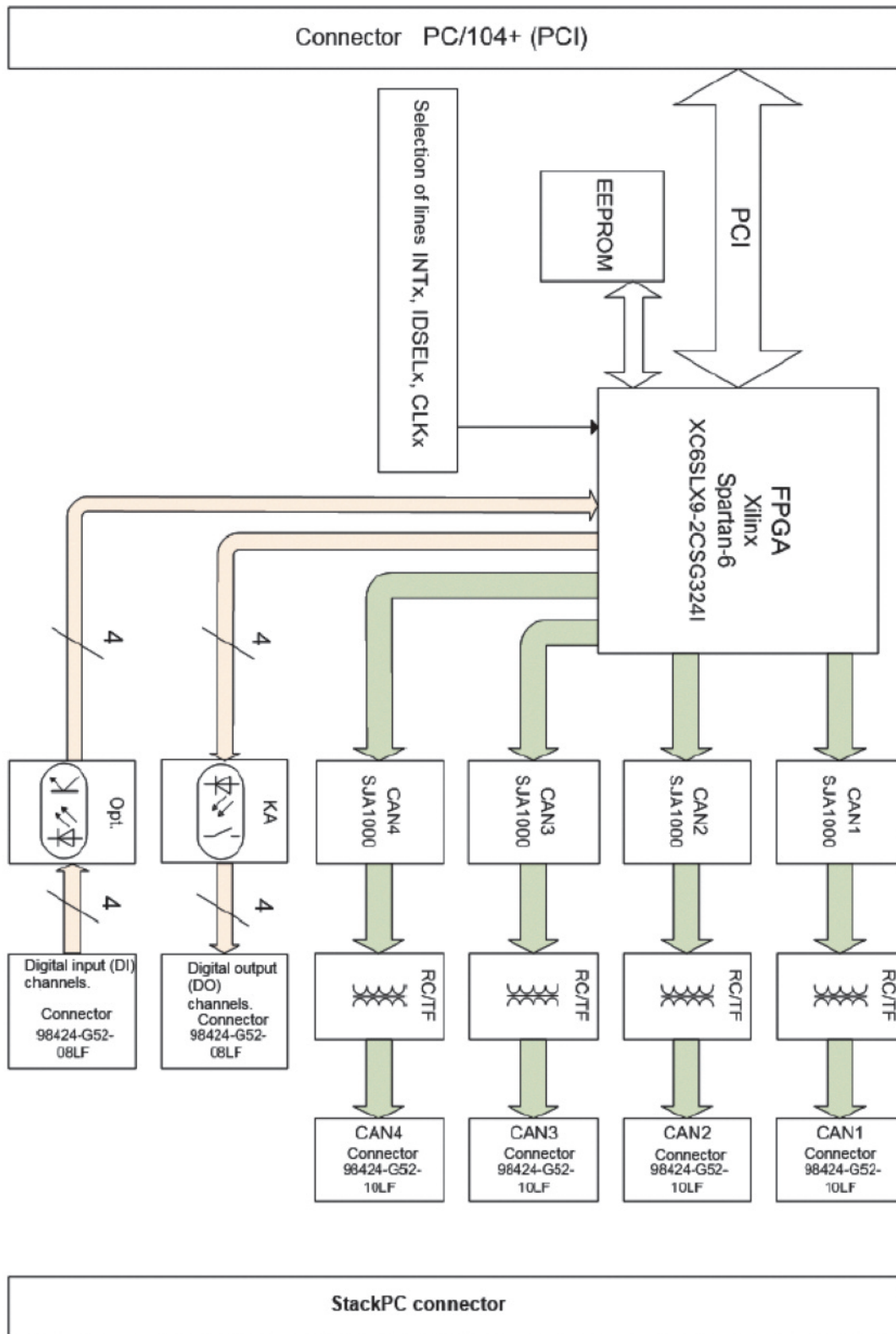
- Windows XPe
- Linux 2.6.x
- QNX 6.5

MTBF

- No less than 170 000 hours



Board Layout



NIM355

StackPC-PCI Interface Module

Ordering Information

NIM355 Configuration

NIM355 - 01 \ Option

Configurations

- | | |
|-----------|---------------------------------------------------------------------------------------------|
| NIM355-01 | 4×CAN, 4×DI, 4×DO.
The module contains a full set of interfaces and functional elements |
| NIM355-02 | 4×CAN.
Module's version has no digital input and output, as well as no StackPC connector |

Options

- | | |
|----------|-------------------|
| \ COATED | Conformal coating |
|----------|-------------------|

Delivery checklist

NIM355 delivery checklist contains:

1. NIM355 Interface Module
2. Package

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Product specifications are subject to change without notice



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