PCAN-Router

Product Overview

The PCAN-Router is a dual-channel CAN module whose NXP LPC21 series programmable microcontroller provides flexible handling of CAN messages on both channels. This allows manipulation, evaluation, filtering, and routing of CAN data.

Using the programming library and the GNU compiler for C/C++, custom firmware can be created and loaded into the module via CAN. The device is shipped with a default firmware that forwards CAN messages 1:1 between both channels at 500 kbit/s. The source code for this firmware is included as an example.

Specifications

- NXP LPC21 series microcontroller (16/32-bit ARM CPU)
- 32 kbyte EEPROM
- Two High-speed CAN channels (ISO 11898-2)
- Supports CAN specifications 2.0 A/B
- Bit rates: 40 kbit/s to 1 Mbit/s
- Connections via two 9-pin D-Sub connectors or one 10-pole Phoenix screw-terminal strip
- Galvanic isolation of CAN 2 (only for IPEH-002211)
- Additional digital input (only for IPEH-002210 and IPEH-002211)
- Status indication with two bi-color LEDs
- Aluminum casing, optional DIN rail mounting
- Voltage supply: 8 to 30 V
- Operating temperature: -40 to +85 °C (-40 to +185 °F)
- Firmware updates via CAN interface

Ordering Information

Designation	Part No.
PCAN-Router with D-Sub connectors	IPEH-002210
PCAN-Router with Phoenix connector	IPEH-002210-P
PCAN-Router with D-Sub connectors, opto-decoupled	IPEH-002211

Scope of Supply

- PCAN-Router in aluminum casing
- IPEH-002210-P includes mating Phoenix connector
- Windows development package with GCC ARM Embedded, flash program, and programming examples
- Manual in PDF format

Requirements

A PEAK CAN interface is required for firmware transfer via CAN.