PCAN-Router DR (IPEH-002213) – Detailed Data Sheet

Product Description

The PCAN-Router DR by PEAK-System is a universal CAN converter equipped with two High-speed CAN channels. It supports bi-directional 1:1 forwarding of CAN messages between two CAN networks. Bit rates can be adjusted using a rotary switch on the front panel. The device provides galvanic isolation between its ports and power supply, with CAN 1 offering up to 5 kV isolation, compliant with IEC 60601-1. Designed for DIN rail mounting, the router is ideal for industrial applications. It is also freely programmable and comes with a comprehensive development package.

Technical Specifications

Feature	Details
Microcontroller	NXP LPC21 series (16/32-bit ARM CPU)
Memory	32 kbyte EEPROM
CAN Channels	2 × High-speed CAN (ISO 11898-2)
CAN Specification	Complies with CAN 2.0 A/B
Bit Rate	5 kbit/s to 1 Mbit/s, adjustable via rotary switch
CAN Transceiver	NXP PCA82C251
Reset Function	Push-button reset

Termination	Switchable for each CAN channel
Status Indicators	LEDs for module, power, and each CAN channel
Connectors	4-pole screw-terminal strips (Phoenix)
Isolation	CAN 1: up to 5 kV; CAN 2 and RS-232: 500 V
Casing	Plastic (22.5 mm width) for DIN rail (DIN EN 60715 TH35)
Power Supply	8 to 30 V DC
Operating Temperature	-40 to +85 °C (-40 to +185 °F)
RS-232	Reserved for future use
Firmware Update	Via CAN interface

Scope of Supply

- PCAN-Router DR in DIN rail plastic casing

- Mating connectors for both CAN channels, RS-232, and power supply

- Windows development package with GCC ARM Embedded, flash tool, and programming examples

- Manual in PDF format

Requirements

Firmware transfer via CAN requires a PEAK CAN interface.