PCAN-Router FD (IPEH-002214/15)

Product Description

The PCAN-Router FD by PEAK-System is a universal, freely programmable converter designed for routing messages between two CAN FD or CAN networks. Based on an ARM Cortex M4 microcontroller, it allows the conversion of CAN to CAN FD and vice versa, enabling easy integration of CAN FD applications into existing CAN 2.0 infrastructures. The module comes with standard firmware and example source code, allowing for custom firmware development using C/C++ and GNU compiler tools.

Technical Specifications

Feature	Specification
Microcontroller	NXP LPC4078 (ARM Cortex M4 with FPU, 120 MHz)
Memory	4 kB EEPROM (on-chip), 8 MB SPI flash
CAN Channels	2 × High-speed CAN (ISO 11898-2), supporting CAN 2.0 A/B and CAN FD
CAN FD Support	ISO and Non-ISO standards, data bit rates 40 kbit/s to 12 Mbit/s, classic CAN bit rates 40 kbit/s to 1 Mbit/s
CAN Transceiver	NXP TJA1043T with wake-up capability
CAN Termination	Solder jumper selectable for each CAN channel
Connections	Two 9-pin D-Sub connectors or one 10-pole Phoenix screw-terminal strip
Serial Interface	RS-232 connector for serial data transfer
Digital I/O	1 digital input (Low-active), 1 digital output (Low-side switch, max. 600 mA), 2

	additional digital inputs alternatively to RS-232
LED Indicators	Two 2-color LEDs for status signaling
Casing	Aluminum casing, optional DIN rail mounting
Power Supply	8 to 30 V DC
Operating Temperature	-40 to +85 °C (-40 to +185 °F)
Firmware Update	Upgradable via CAN interface

Scope of Supply

• PCAN-Router FD module in aluminum casing

• IPEH-002215: Mating connector (Phoenix type)

• Windows development package with GCC ARM Embedded compiler, flash program, and programming examples

• PDF manual

Requirements

• PEAK CAN interface required for firmware transfer via CAN

Ordering Information

• PCAN-Router FD with D-Sub connectors – Part No.: IPEH-002214

• PCAN-Router FD with Phoenix connector – Part No.: IPEH-002215