# PCAN-USB Pro FD (IPEH-004061) – Detailed Data Sheet



## Overview

The PCAN-USB Pro FD enables easy connection between a PC and CAN FD and LIN networks via High-Speed USB 2.0. The adapter supports two field buses simultaneously—two CAN FD or two LIN channels—with complete electrical isolation and optional +5V power output. Housed in a durable aluminum casing, it is ideal for mobile or industrial applications.

## Technical Specifications

### USB Interface:

- High-Speed USB 2.0 (compatible with USB 1.1 and 3.0)

- Power supply through USB

### Operating Temperature:

- -40 °C to +85 °C (-40 °F to +185 °F)

### Time Stamp Resolution:

- 1 µs

### Enclosure:

- Aluminum case (robust, mobile-ready)

## CAN FD Operation

- Standards: Supports CAN 2.0 A/B and CAN FD (ISO & non-ISO)

- Bit Rate (CAN): 25 kbit/s to 1 Mbit/s

- Bit Rate (CAN FD): 25 kbit/s to 12 Mbit/s (64 bytes max per data field)

- Transceiver: NXP TJA1044GT

- Isolation: Opto-decoupled from USB and LIN, up to 500 V

- Termination: CAN termination switchable via solder jumpers (per channel)

- Controller: FPGA-based CAN FD controller

- Error Support: Detection of error/overload frames; induced error generation

- Bus Load Measurement: Includes error and overload frames

## LIN Operation

- Bit Rates: 1 kbit/s to 20 kbit/s

- Transceiver: TJA1028

- LIN Specs: Compliant up to version 2.2

- Isolation: Both LIN channels opto-decoupled from USB and CAN FD

- Modes: LIN Master or Slave (1 ms master task resolution)

- Auto Recognition: Bit rate, frame length, checksum type

- Scheduler: Autonomous support for unconditional, event, sporadic frames

- Schedule Tables: Up to 8 tables with 256 slots total

## Software & Drivers

### Included Software:

- PCAN-View: CAN monitor for Windows

- PLIN-View Pro: LIN monitor for Windows

- PCAN-Basic: API for CAN programming

- PLIN-API: API for LIN programming

- Standard Protocol APIs: Automotive sector protocols

- Manual: PDF format

## Driver Support:

- Windows 11 (x64/ARM64)

- Windows 10 (x64)

- Linux