CAN Interface for USB

The PCAN-USB adapter enables simple connection to CAN networks. Its compact plastic casing makes it suitable for mobile applications.

The opto-decoupled version guarantees galvanic isolation of up to 500 Volts between the PC and the CAN side.

The package is also supplied with the CAN monitor PCAN-View for Windows and the programming interface PCAN-Basic.

D-Sub	Pin	Pin assignment
	1	Not connected / optional +5V
	2	CAN-L
	3	GND
	4	Not connected
	5	Not connected
	6	GND
	7	CAN-H
	8	Not connected
	9	Not connected / optional +5V

Specifications

- Adapter for the USB connection (Full-Speed mode, compatible with USB 1.1, USB 2.0, and USB 3.0)
- High-speed CAN connection (ISO 11898-2)
- Bit rates from 5 kbit/s up to 1 Mbit/s
- Time stamp resolution approx. 42 µs
- Compliant with CAN specifications 2.0A (11-bit ID) and 2.0B (29-bit ID)
- CAN bus connection via D-Sub, 9-pin (in accordance with CiA® 303-1)
- NXP SJA1000 CAN controller, 16 MHz clock frequency
- NXP PCA82C251 CAN transceiver
- 5-Volt supply to the CAN connection can be connected through a solder jumper, e.g. for external bus converter
- Galvanic isolation on the CAN connection up to 500 V (only for IPEH-002022)
- Voltage supply via USB
- Extended operating temperature range from -40 to 85 °C (-40 to 185 °F)

Ordering information

Designation	Part No.
PCAN-USB	IPEH-002021
PCAN-USB opto-decoupled	IPEH-002022

Scope of supply

- PCAN-USB in plastic casing
- Device drivers for Windows 10, 8.1, 7 and Linux (32/64-bit)
- Device driver for Windows CE 6.x (x86 and ARMv4 processor support)
- CAN monitor PCAN-View for Windows (details on page 91)
- Programming interface PCAN-Basic for developing applications with CAN connection (details on page 78)
- Programming interfaces for standardized protocols from the automotive sector
- Manual in PDF format