

PCAN-USB FD

CAN and CAN FD Interface for High-Speed USB 2.0

The CAN FD adapter PCAN-USB FD allows the connection of CAN FD and CAN networks to a computer via USB. A galvanic isolation of up to 500 Volts decouples the PC from the CAN bus. The simple handling and its compact plastic casing make the adapter suitable for mobile applications.

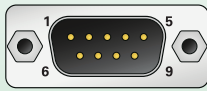
The monitor software PCAN-View and the programming interface PCAN-Basic for the development of applications with CAN connection are included in the scope of supply and support the standard CAN FD.

CAN FD is primarily characterized by higher bandwidth for data transfer. Further information about CAN FD can be found on page 10.



Specifications

- ___ Adapter for High-speed USB 2.0 (compatible to USB 1.1 and USB 3.0)
- ___ High-speed CAN connection (ISO 11898-2)
- ___ Complies with CAN specifications 2.0 A/B and FD
- ___ CAN FD support for ISO and Non-ISO standards switchable
- ___ CAN FD bit rates for the data field (64 bytes max.) from 25 kbit/s up to 12 Mbit/s
- ___ CAN bit rates from 25 kbit/s up to 1 Mbit/s
- ___ Time stamp resolution 1 µs
- ___ CAN bus connection via D-Sub, 9-pin (in accordance with CiA® 106)
- ___ FPGA implementation of the CAN FD controller
- ___ NXP TJA1044GT CAN transceiver
- ___ Galvanic isolation up to 500 V
- ___ CAN termination can be activated through a solder jumper
- ___ Measurement of bus load including error frames and overload frames on the physical bus
- ___ Induced error generation for incoming and outgoing CAN messages
- ___ 5-Volt supply to the CAN connection can be connected through a solder jumper, e.g., for external bus converter
- ___ Voltage supply via USB
- ___ Extended operating temperature range from -40 to +85 °C (-40 to +185 °F)

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

Ordering information

Designation	Part No.
PCAN-USB FD	IPEH-004022

Scope of supply

- ___ PCAN-USB FD in plastic casing
- ___ Device drivers for Windows 11 (x64/ARM64), 10 (x64), and Linux
- ___ CAN monitor PCAN-View for Windows (details on page 94)
- ___ Programming interface PCAN-Basic for developing applications with CAN connection (details on page 80)
- ___ Programming interfaces for standardized protocols from the automotive sector
- ___ Manual in PDF format