PEAK
System

PCAN-PCI Express

CAN Interface for PCI Express

The PCAN-PCI Express card enables the connection of a PC with PCI Express slots to CAN networks. There is galvanic isolation of up to 500 Volts between the computer and CAN sides. There are versions with one, two and four channels.

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

Specifications

└── PC plug-in card (PCIe x1) for PCI Express slots

└── 1, 2, or 4 High-speed CAN channels (ISO 11898-2)

└── Bit rates from 5 kbit/s up to 1 Mbit/s

└── 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® 106)

└── FPGA implementation of the CAN controller
(SJA1000 compatible)

└── NXP PCA82C251 CAN transceiver

└── Galvanic isolation on the CAN connection up to 500 V,
separate for each CAN channel

└── 5-Volt supply to the CAN connection can be
connected through a solder jumper, e.g., for external
bus converter

└── 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-PCI Express Single Channel galv. isolated	IPEH-003026
PCAN-PCI Express Dual Channel galv. isolated	IPEH-003027

Scope of supply

└── Plug-in card PCAN-PCI Express

└── Slot bracket with D-Sub connectors for the CAN
bus (only four-channel version)

└── Device drivers for Windows 11 (x64), 10 (x64),
and Linux

└── CAN monitor PCAN-View for Windows
(details on page 108)

└── Programming interface PCAN-Basic for
developing applications with CAN connection
(details on page 94)

└── Programming interfaces for standardized
protocols from the automotive sector

└── Manual in PDF format

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