

PCAN-PCI/104-Express

CAN Interface for PCI/104-Express

The PCAN-PCI/104-Express card enables the connection of one, two, or four CAN buses to a PCI/104-Express system. Up to four cards can be stacked together. The CAN bus is connected using a 9-pin D-Sub plug on the slot brackets supplied. 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

- ☐ PCI/104-Express card, 1 lane (x1)
- ☐ Form factor PC/104
- ☐ Up to four cards can be used in one system
- ☐ 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)
- ☐ Connection to CAN bus through D-Sub slot bracket, 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
- ☐ Supplied only via the 5 V line
- ☐ 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)
- ☐ Optionally available: PCI-104 stack-through connector

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

Ordering information

Designation	Part No.
PCAN-PCI/104-Express Single Ch.	IPEH-003054
PCAN-PCI/104-Express Single Ch. opto-decoupled	IPEH-003056

Scope of supply

- ☐ PCAN-PCI/104-Express card
- ☐ Slot bracket with D-Sub connector(s) for the CAN bus (two for the four-channel version)
- ☐ Device drivers for Windows 11 (x64), 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