

PCAN-PC/104-Plus

CAN Interface for PC/104-Plus

The PCAN-PC/104-Plus card enables the connection of one or two CAN networks to a PC/104-Plus system. Up to four cards can be operated, with each piggy-backing off the next. The CAN bus is connected using a 9-pin D-Sub plug on the slot bracket supplied.

The card is available as a single or dual-channel version. The opto-decoupled versions also guarantee galvanic isolation of up to 500 Volts between the PC and the CAN sides.

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

- Form factor PC/104
- Use of the 120-pin connection for the PCI bus
- Up to four cards can be used in one system
- 1 or 2 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)
- 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, separate for each CAN channel (only for IPEH-002096 and IPEH-002097)
- Extended operating temperature range from -40 to +85 °C (-40 to +185 °F)
- Optionally available: PC/104-ISA stack-through connector

Ordering information

Designation	Part No.
PCAN-PC/104-Plus Single Ch.	IPEH-002094
PCAN-PC/104-Plus Dual Ch.	IPEH-002095
PCAN-PC/104-Plus Single Channel opto-decoupled	IPEH-002096
PCAN-PC/104-Plus Dual Channel opto-decoupled	IPEH-002097

Scope of supply

- PCAN-PC/104-Plus card
- Slot bracket with D-Sub connectors for the CAN bus
- 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