PCAN-miniPCle FD (IPEH-004045 / 46 / 47) – Detailed Data Sheet



Product Description

The PCAN-miniPCIe FD from PEAK-System is a CAN and CAN FD interface card designed for PCI Express Mini (PCIe) slots. Its compact design makes it ideal for embedded systems that require connectivity to up to four CAN FD and CAN networks. The card offers galvanic isolation of up to 300 V between the CAN side and the host computer. Available in single, dual, and four-channel variants, it comes with PCAN-View monitoring software and the PCAN-Basic API for application development.

Technical Specifications

Feature	Details
Interface	CAN interface for PCI Express Mini slot (PCIe lane)
Form Factor	PCI Express Mini (four-channel not supported due to height)
CAN Channels	1, 2, or 4 High-speed CAN channels (ISO 11898-2)
CAN Compliance	CAN 2.0 A/B and FD (ISO and Non-ISO switchable)
CAN FD Bit Rates	25 kbit/s to 12 Mbit/s (64-byte data field max.)

CAN Bit Rates 25 kbit/s to 1 Mbit/s

CAN Connection Via D-Sub 9-pin cable (CiA® 106

compliant)

CAN Controller FPGA implementation

CAN Transceiver NXP TJA1044GT

Galvanic Isolation Up to 300 V, per CAN channel

CAN Termination Solder jumpers per channel

PCIe Communication Bus master DMA

DMA Support 32- and 64-bit address memory access

Bus Load Measurement Includes error and overload frames

Error Injection For both incoming and outgoing messages

Operating Temperature -40 to +85 °C (-40 to +185 °F)

D-Sub 9-Pin Connector Pin Assignment

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

Scope of Supply

- PCAN-miniPCIe FD card (Single, Dual, or Four Channel)
- Connection cables incl. D-Sub connector (20 or 40 cm, other lengths on request)

- Device drivers for Windows 11 (x64), Windows 10 (x64), and Linux
- CAN monitor software PCAN-View for Windows
- PCAN-Basic programming interface
- Programming interfaces for standardized automotive protocols
- Manual in PDF format