

CAN 2.0 / CAN FD Interface Card Mini PCIe to 2 x D-Sub 9 pin, up to 8 Mbps with isolation and surge protection

Description

This CAN bus interface card by Delock expands computer systems with two CAN FD and CAN 2.0 interfaces. The two flexible connections enable you to seamlessly connect CAN FD and CAN 2.0 bus nodes.

Thanks to its modular Mini PCIe format, the card can be easily integrated into various platforms such as desktop PCs, embedded systems, AMRs (autonomous mobile robots) and BMS (battery management systems).

Software interface

The software interface included in the scope of delivery offers developers the opportunity to create their own applications for Windows and Linux. With the provided VCP Windows drivers, the API as well as examples and the Linux kernel module, the card supports simple and effective development of applications tailored to the specific needs of various projects.

Protective circuits

Galvanic isolation combined with surge protection Level 4 ESD protection ensures a high level of additional safety for the interface card and the respective CAN bus.



Item no. 63002

EAN: 4043619630028

Country of origin: Taiwan,
Republic of China

Package: Retail Box

Technical details

- Connectors:
 - 1 x Mini PCI Express, Rev. 2.0
 - 2 x D-Sub 9 pin male with nuts
- Plug & Play, I/O address and IRQ assigned by BIOS
- ISO 11898 (2015)
- Chipset: QiuNiu
- Loopback mode
- Programming interface:
 - Linux: C, C++, Python
 - Windows (DLL + virtual COM Port): C, C++, C#, Python, VB
- Supports: SocketCAN
- Supported protocols:

CAN 2.0 A/B

CAN FD

CAN FD Non-ISO

CANopen CC

CANopen FD

SAE J1939

SAE J1939 on CAN FD

- Data transfer rate:

CAN 2.0: 10 Kbps up to 1000 Kbps

CAN FD: arbitration rate up to 1000 Kbps, data rate up to 8000 Kbps

SAE J1939 on CAN FD: arbitration rate up to 500 Kbps, data rate up to 2000 Kbps

Supported arbitration rate: 10/20/33/40/47/50/80/83/95/100/125/250/500/666/1000 Kbps

Supported data rate: 1/2/4/5/6/8 Mbps

- ±15 kV IEC 61000-4-2 Air Gap Discharge
- ±8 kV IEC 61000-4-2 Contact Discharge
- Galvanic isolation: 500 V
- Surge Protection: 1 kV
- CAN termination resistor: 2 x 120 Ohm
- Operating temperature: -20 °C ~ 70 °C
- Humidity: 5 ~ 95 %
- Cable length incl. connectors: ca. 35 cm
- Dimensions (LxWxH): ca. 50 x 30 x 8 mm

System requirements

- Linux Kernel 4.11 or above
- Windows 10/10-64/11
- Motherboard with a free Mini PCIe slot with a PCIe interface

Package content

- Mini PCIe module
- 2 x CAN Bus connection cable
- User manual

Images



General

Protocol:	CAN 2.0A CAN 2.0B CAN FD Non-ISO CANopen CC CAN FD CANopen FD SAE J1939 SAE J1939-22 SAE J1939-17
Form factor:	Mini PCIe full size
Function:	Converter
Specification:	ISO 11898-1:2015
Supported operating system:	Windows 10 32-Bit Windows 10 64-Bit Windows 11 Windows Server 2022 Linux Kernel 4.11 or above
LED indicator:	1 x

Interface

Connector 1:	1 x Mini PCI Express, Rev. 2.0
Connector 2:	1 x 10 Pin CAN Bus pin header male
Connector 3:	1 x 10 Pin CAN Bus pin header male

Technical characteristics

Data transfer rate:	up to 8 Mbps
Jumper:	2 x

Physical characteristics

Colour:	black
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Manufacturer information

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