

## **Kvaser M.2 PCle 4xCAN**

EAN: 73-30130-01333-9

Kvaser M.2 PCIe 4xCAN is a highly-integrated embedded CAN board that adds four high speed CAN/CAN FD channels to any host computer with PCI Express connectivity and an available B or M keyed M.2 slot.

This CAN interface board has a particularly compact footprint, thanks to an M.2 card size of 22 x 80 mm and industry-leading height of just 2 mm. Unique to the Kvaser M.2 PCIe 4xCAN is that the CAN transceivers are distributed (off-board), allowing them to be located closer to the CAN networks themselves. This layout maximises signal quality and integrity.

With a timestamp resolution of just 1  $\mu$ s and a maximum message rate of 20000 msg/s per channel, plus advanced features such as silent mode, error frame detection and generation, this advanced board with distributed CAN transceivers can be integrated in a wide range of embedded systems.

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## **Major Features**

- B+M keyed M.2 PCI Express CAN interface with four channels.
- Distributed CAN modules minimise the signal integrity impact when connected to CAN-bus systems.
- Each channel is individually isolated, ensuring optimal galvanic isolation.
- Supports CAN FD, up to 8 Mbit/s.
- · Quick and easy plug-and-play installation.
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.
- Supports silent mode for analysis tools listen to the bus without interfering.
- Supports simultaneous usage of multiple Kvaser interfaces and SocketCAN.
- Kvaser's free of charge CANLIB SDK can be used to develop software for these boards.
- High-speed CAN connection (compliant with ISO 11898-2), up to 1 Mbit/s.
- Meets the standard industrial temperature range of -40 to 85 °C.
- Compatible with J1939, CANopen, NMEA 2000® and DeviceNet. Higher layer protocol translation handled by the user's application. For software support please see our Technical Associates products and our Software Download page (www.kvaser.com).

## Software

Documentation, Kvaser CANlib SDK and drivers can be downloaded for free at <a href="https://www.kvaser.com/downloads">www.kvaser.com/downloads</a>.

Kvaser CANlib SDK is a free resource that includes everything you need to develop software for the Kvaser CAN interfaces. Includes full documentation and many program samples, written in C, C++, C#, Delphi, Visual Basic, Python and t programming language.

Kvaser CAN hardware is built around the same common software API. Applications developed using one device type will run without modification on other device types.

## Technical data

Bus Interface	PCle x1
CAN Bit Rate	20 kbit/s to 1 Mbit/s
CAN Channels	4
CAN FD	Up to 8 Mbit/s
CAN Transceivers	MCP2561FD (Compliant with ISO 11898-2)
Certifications	CE, RoHS
Connector	9-pin D-SUB
Dimensions M.2 card	22 x 80 mm
Error Frame Detection	Yes
Error Frame Generation	Yes
Galvanic Isolation	Yes
Operating Systems	Windows, Linux
Operating Temperature Range	-40 °C to +85 °C
Power Consumtion	Typically 770 mA at 3.3 V
Silent Mode	Yes
Timestamp Resolution	1 μs
Weight	42 g (including CAN modules and cables)



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