



## Kvaser M.2 PCIe 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.

### Warranty

2-year warranty. See our General Conditions and Policies for details.

### Support

Free support for all products by contacting [support@kvaser.com](mailto:support@kvaser.com).

## 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](http://www.kvaser.com)).

## Software

Documentation, Kvaser CANlib SDK and drivers can be downloaded for free at [www.kvaser.com/downloads](http://www.kvaser.com/downloads).

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

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