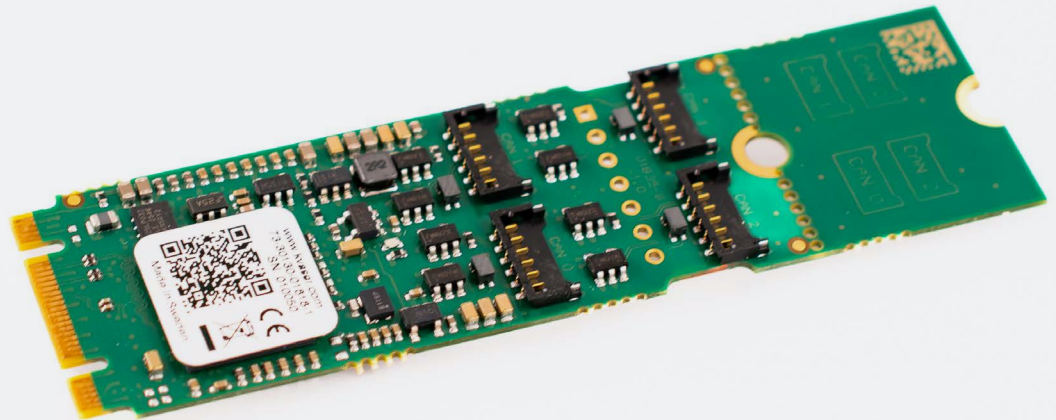
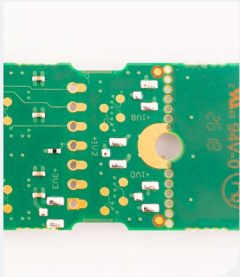




Learn more about  
this product



## Kvaser M.2 PCIe xCAN Embedded Controller Card

Kvaser M.2 PCIe xCAN is a highly-integrated embedded controller card that adds up to 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 controller card has an exceptionally compact footprint, as it supports adjustable M.2 lengths. The card measures 22 x 80 mm and can also be configured as 22 x 60 mm for even tighter integrations. Its industry-leading height is just 2 mm.

Its CAN transceivers are implemented as separate off-board modules (EAN: 73-30130-01821-1) enabling flexible placement close to the CAN networks for improved signal integrity while also facilitating easier EMC zone boundary management.

With 1  $\mu$ s timestamp resolution, up to 20,000 messages/s per channel, and features such as silent mode and error frame detection/generation, it is designed for advanced 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)



### EAN

73-30130-01818-1

## Major Features

- B+M keyed M.2 PCI Express CAN interface with up to four channels.
- Breakable to fit in both 60 and 80 mm slots.
- Flexibility to select from 1 up to 4 channels, depending on current installation and needs, (CAN modules sold separately, EAN: 73-30130-01821-1)
- Distributed CAN modules minimise the signal integrity impact when connected to CAN-bus systems.
- Facilitates easier EMC zone boundary management.
- Supports CAN FD, up to 8 Mbit/s.
- 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.
- Quick and easy plug-and-play installation.
- 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.
- 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)).

## Support

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

Kvaser 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 script 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.

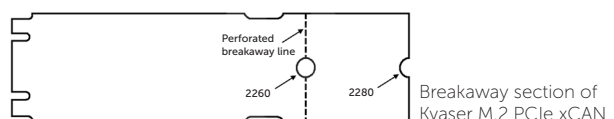
## Technical Data

<b>CAN Bit Rate</b>	20 kbit/s to 1 Mbit/s
<b>CAN Channels</b>	Capacity up to 4
<b>CAN Controller</b>	Yes
<b>CAN FD Bit Rate</b>	Up to 8 Mbit/s
<b>Dimensions</b>	22 x 80 mm (breakable to 22 x 60 mm)
<b>Error Frame Detection</b>	Yes
<b>Error Frame Generation</b>	Yes
<b>Galvanic Isolation</b>	Yes, in combination with Kvaser Flex DB9 (73-30130-01821-1)
<b>Host interface</b>	PCIe x1 in an M.2-slot (B or M keyed)
<b>Max message rate</b>	20 000 msg/s per channel
<b>Operating Systems</b>	Linux, Windows <sup>1</sup>
<b>Power Consumption</b>	Typically 770 mA at 3.3 V
<b>Regulatory Compliance</b>	CE, FCC
<b>Silent Mode</b>	Yes
<b>Temperature Range</b>	-40 to +85 °C
<b>Timestamp Resolution</b>	1 µs
<b>Weight</b>	4.8 g

<sup>1</sup> Windows 10 (IA-32 and x86-64)  
Windows 11 (x86-64)



Kvaser M.2 PCIe xCAN (01818-1) combined with four Kvaser Flex DB9 (01821-1)



Breakaway section of Kvaser M.2 PCIe xCAN