



## KVASER MINI PCI EXPRESS 2XHS V2

EAN 73-30130-01029-1

The Kvaser Mini PCI Express 2xHS v2 is a small (30 x 51mm), yet advanced, real time CAN interface that adds two high speed CAN or CAN FD channels to any standard computer with mini PCI Express capability. PC communication is over the PCI Express system bus, making for extremely low latency with a time stamp accuracy of 1  $\mu$ s.

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## Major Features

- Fully compliant to the PCIe bus specification 1.2, Type F2 form factor (Full-Mini with bottom-side keep outs).
- Two high-speed CAN connections (compliant with ISO 11898-2), supporting a bit rate from 50 to 1000 kbit/s for Classical CAN and up to 8Mbit/s for CAN FD (with correct physical layer implementation).
- High transmission rate of up to 20000 messages/s.
- Time stamp accuracy of 1  $\mu$ s.
- Galvanic isolation.
- Operates over the industrial temperature range of -40 to +85°C.
- Low profile 4-pin Molex compatible connector, compliant with mPCIe height restrictions. Includes Molex to DSUB9 cable adapter.
- Complies with EN 61000-6-2:2005, specifying EMC immunity for industrial environments.
- Supports Windows Vista or later.
- Linux drivers and SDK are available as a separate download.
- Kvaser's free of charge CANlib SDK can be used to develop software for the Mini PCI Express HS board. Windows DLL library and examples included.
- Please note: A different pin usage is used for the system bus connection, so it is not fully backwards-compatible with the Kvaser Mini PCI Express HS (00688-1).

## Technical Data

CAN Bit Rate	50-1000 kbp/s
CAN FD Bit Rate	Up to 8 Mbit/s (with correct physical layer implementation)
Channels	2
PC Interface	Mini PCI Express, type F2 (i.e. full-Mini with bottom side keep outs)
Temp Range	-40 to +85 °C
Messages Per Second Receive	20000 mps
Messages Per Second Sending	20000 mps
Error Frame Detection	Yes
Error Frame Generation	Yes
Galvanic Isolation	Yes
Silent Mode	Yes
Weight	5 g
Dimensions	51 x 30 x 5 mm
Connector	Molex 53780 PanelMate TM
Current Consumption	Typically 700 mW idle plus max 150 mW per channel, i.e. max 850 mW for a single channel interface. Only uses 3.3 V.
OS Windows	Windows Vista or later. (For other operating systems, contact Kvaser support.)



### WARRANTY

2-Year Warranty. See our General Conditions and Policies for details. Register your product at [www.kvaser.com/getting-started](http://www.kvaser.com/getting-started) for an additional 1-year Warranty Extension.

### SUPPORT

Free Technical Support on all products available by contacting [support@kvaser.com](mailto:support@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 programs.

All Kvaser CAN interface boards share the common software API, CANlib SDK. Programs written for one interface type will run without modifications on the other interface types.

J2534 Application Programming Interface available.

RP1210A Application Programming Interface available.

HTML-Help and online documentation in Windows and Linux.