



Kvaser Mini PCI Express HS v2

EAN: 73-30130-01038-3

The Kvaser Mini PCI Express HS v2 is a small (30 x 51 mm), yet advanced, real time CAN interface that adds one high speed CAN or CAN FD channel 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 μ s.

Major Features

- Fully compliant to the PCIe bus specification 1.2, Type F2 form factor (Full-Mini with bottom-side keep outs).
- High-speed CAN connection (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.
- High transmission rate of up to 20000 messages/s.
- Time stamp accuracy of 1 μ s.
- Galvanic isolation.



- Suitable for industrial environments.
- Low profile mini PCI Express-compliant 4-pin Molex connector provides CAN channel access.
- Includes Molex to DSUB9 cable adapter.
- Complies with EN 61000-6-2:2005, specifying EMC immunity for industrial environments.
- Operates over the industrial temperature range of -40 to +85°C.
- 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.
- Supports Windows Vista or later.
- Linux drivers and a dedicated SDK are available as a separate download.
- Support for SocketCAN, see elinux.org for details.
- Extended operating temperature range from -40 to 85 °C.
- *Note: Kvaser's already-existing [Kvaser Mini PCI Express HS](#) and [Kvaser Mini PCI Express 2xHS](#) products will remain available for sale. The primary difference is that these previous versions utilize the USB system bus for communication with the PC.*

Warranty

- 2-Year Warranty. See our General Conditions and Policies for details. Register your product at 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.

Software

- Documentation, Kvaser CANlib SDK and drivers can be downloaded for free at
- 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 Script.
- 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
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- J2534 Application Programming Interface available.
- RP1210A Application Programming Interface available.
- HTML-Help and online documentation in Windows and Linux.



TECHNICAL DATA - KVASER MINI PCI EXPRESS HS V2

CB BOARD	No
CERTIFICATIONS	CE,RoHS
SOUND	No
SILENT MODE	Yes
MSGRATE TX MAX	20000
HEIGHT (MM)	5
RUGGED	No
MINIMUM BITRATE (KBPS)	50
PROMOTIONAL_TEXT	Single channel Mini PCI Express CAN/CAN FD interface; PC communication over PCI Express system bus.
MSGRATE RX MAX	20000
OPERATING SYSTEM	Linux,Win 7,Win Vista,Win 10,Win 8
PRODUCT GROUPS	Mini PCI Express
CONNECTOR	Molex 53780 PanelMate TM
PC INTERFACE	Mini PCI Express
RELEASE DATE	9/10/2019
LENGTH (MM)	51
CLOCK SYNC	No
NETWORK CHANNEL(S)	1 x CAN HS
API, FREE	Kvaser API, J2534, RP 1210
OPERATING TEMPERATURE RANGE (C)	-40.00 to 85.00
MAXIMUM BITRATE (KBPS)	8000
ON-BOARD RX BUFFER	No
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.
WEIGHT (G)	6.0



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CAN FD	Yes
ERROR FRAME GENERATION	Yes
STATUS	Active
EMBEDDED SCRIPT	No
TIMESTAMP RESOLUTION (US)	1
GALVANIC ISOLATION	Yes
CAN FD BIT RATE	Up to 8 Mbit/s
# OF CAN CHANNELS	1
ON-BOARD TX BUFFER	No
ON-BOARD BUFFER	No
ERROR FRAME DETECTION	Yes
WIDTH (MM)	30
IP CLASS	IP00

The information herein is subject to change without notice