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this product



## Your Gateway to Efficient Connectivity

The Kvaser U100-X1 is a robust, single-channel CAN/CAN FD to USB interface with reinforced galvanic isolation (tested according to EN 60335-1:2012 paragraph 13 with 5000 VAC rms applied for 60 seconds) that squarely addresses the needs of the evolving automotive development market. Fully compatible with J1939, CANopen, NMEA 2000® and DeviceNet, this is the first in a new range of interfaces that is also suited to rugged applications in marine, industrial, heavy duty vehicle and heavy industries.

-  **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**  
73-30130-01266-0

## Major Features

- Supports CAN FD, up to 8 Mbit/s (with correct physical layer implementation).
- Supports both 11-bit (CAN 2.0A) and bit (CAN 2.0B active) identifiers.
- Lightweight, glass fibre reinforced polyamide housing, overmolded with TPE.
- J1939-13 Type II connector (other connectors available).
- Intelligent LED UI.
- Reinforced Galvanic Isolation. (Tested according EN 60335-1:2012 paragraph 13, 5000VAC rms applied for 60 seconds)
- 20000 msg/s, each timestamped with a resolution of 100 µs.
- Support for SocketCAN.
- Fully compatible with applications written for other Kvaser CAN hardware with Kvaser CANlib.
- 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 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>CAN Bit Rate</b>	10 kbit/s to 1 Mbit/s
<b>CAN Channels</b>	1
<b>CAN FD Bit Rate</b>	Up to 8 Mbit/s
<b>CAN Transceivers</b>	ADM3055E
<b>Casing Material</b>	PA/TPE
<b>Certifications</b>	CE, RoHS
<b>Connector</b>	J1939-13 Type II
<b>Current Consumption</b>	Typical 250 mA
<b>Dimensions</b>	38 x 128 x 26 mm
<b>Galvanic Isolation</b>	Yes, reinforced. Validated with 5000 VAC rms applied for 60 seconds.
<b>IP Rating Housing</b>	IP67
<b>Operating Systems</b>	Windows, Linux
<b>Temperature Range</b>	-40 °C to +85 °C
<b>Timestamp Resolution</b>	100 µs
<b>Weight</b>	212 g