KVASER
Advancing connectivity

Kvaser U100-X1

Learn more about 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 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

EAN
73-30130-01266-0

Ref. No. 98336-6 v. 2.1

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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, 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).

Support

Documentation, Kvaser SDK and drivers can be downloaded for free at 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

CAN Bit Rate	10 kbit/s to 1 Mbit/s
CAN Channels	1
CAN FD Bit Rate	Up to 8 Mbit/s
CAN Transceivers	11898-2 Compliant
Certifications	CE, FCC
Connector	J1939-13 Type II
Dimensions	38 x 128 x 26 mm
Error Frame Detection	Yes
Error Frame Generation	No
Galvanic Isolation	Yes
IP Rating Housing	IP67
Operating Systems	Linux, Windows [1]
Power consumption	300 mA at 5 V
Temperature Range	-40 to +85 °C
Timestamp Resolution	100 µs
Weight	212 g

[1] Windows 7, 8, 10 (IA-32 and x86-64)
Windows 11 (x86-64)

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