KVASER
Advancing connectivity

# Kvaser U100

Learn more about this product









## Your Gateway to Efficient Connectivity

The Kvaser U100 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 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**
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## Major Features

- Supports CAN FD up to 8 Mbit/s and high-speed CAN up to 1 Mbit/s with a CAN SIC transceiver.
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.
- Lightweight, glass fibre reinforced polyamide housing, overmolded with TPE.
- Intelligent LED UI.
- Reinforced Galvanic Isolation, 5000 VAC 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** | Yes |
| **CAN FD Bit Rate** | Up to 8 Mbit/s |
| **CAN Transceivers** | CAN SIC, compliant with ISO 11898-2 |
| **Connector** | DSUB 9 |
| **Dimensions** | 38 x 128 x 26 mm |
| **Error Frame Detection** | Yes |
| **Error Frame Generation** | No |
| **Galvanic Isolation** | Yes |
| **Host interface** | USB 2.0, standard USB type "A" connector |
| **IP Rating Housing** | IP67 |
| **Operating Systems** | Linux, Windows [1] |
| **Operating Temperature Range** | -40 to +85 °C |
| **Power consumption** | 300 mA at 5 V |
| **Regulatory Compliance** | CE, FCC |
| **Silent mode** | No |
| **Timestamp Resolution** | 100 µs |
| **Weight** | 167 g |

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

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