KVASER U100P

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The Kvaser U100P is the Precision version of Kvaser's U100 range of CAN to USB interfaces. Precision features comprise a high timestamp precision of 20 000 msg/s and MagiSync™, which makes it possible to synchronise time stamps across multiple Kvaser MagiSync™-enabled devices without requiring extra wires.

Robust, galvanically-reinforced (tested according to EN 60335-1:2012 paragraph 13 with 5000 VAC rms applied for 60 seconds) and signal and power isolated, the Kvaser U100 range offers enhanced electrical protection, a vibration, shock and drop-proof housing and high-quality cabling that establishes a new reference in CAN interface design.

Datasheet

Major Features

- Supports CAN FD, up to 8 Mbit/s (with correct physical layer implementation).
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B active) identifiers.
- Supports silent mode for analysis tools – listen to the bus without interfering.
- 20 000 msg/s, timestamped with a resolution of 1 μs.
- Kvaser MagiSync™ – automatic time synchronization.
- Powered through the USB connector.
- Lightweight, glass fibre reinforced polyamide housing, TPE overmolded.
- Reinforced Galvanic Isolation. (Tested according to EN 60335-1:2012 paragraph 13, 5000VAC rms applied for 60 s)
- Intuitive LED UI.
- Support for SocketCAN.
- Compatible with J1939, CANopen, NMEA 2000® and DeviceNet.
- Fully compatible with applications written for other Kvaser CAN hardware with Kvaser CANlib.

Technical Data

CAN Bit Rate	10 kbit/s to 1 Mbit/s
CAN FD	Yes
CAN FD Bit Rate	Up to 8 Mbit/s
CAN Channels	1
CAN Transceivers	ADM3055E
Casing Material	PA/TPE
Connector	DSUB 9
Current Consumption	Typical 250 mA
Dimensions	38 x 128 x 26 mm
Galvanic Isolation	Yes, reinforced. Validated with 5000 VAC rms applied for 60 seconds.
IP Rating Housing	IP67
Operating Temperature Range	-40 °C to +85 °C
Timestamp Resolution	1 μs
Weight	170 g
Operating Systems	Windows, Linux

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 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