

Product Information



Kvaser Leaf Professional

USB to CAN Interface



The Kvaser Leaf Professional is an one channel USB interface for CAN (HighSpeed, LowSpeed or SingleWire) and LIN. Instant synchronization without any fuss. No extra wires required !

Kvaser Leaf Professional is a product for innovative solutions with top performance. With the patented Kvaser MagiSync™, all Kvaser Leaf Professional interfaces connected to the same USB hub are synchronized to a high precision virtual global clock.

Application Areas

Kvaser Leaf professional is designed for high end applications that require high performance, accurate time stamping and Kvaser MagiSync™ synchronization. This is the ultimate tool for advanced CAN bus analyzers, data loggers and other high end applications.

General Features

- Easy use of multiple interfaces / connect any number of Kvaser Leaf to a USB hub.
- Time stamps are automatically synchronized when multiple units are connected, without the need for cumbersome external cables.
- Excellent EMC performance.
- Quick and easy Plug and Play installation.
- Low power consumption - several devices can be powered by a standard hub.

Kvaser MagiSync™

- Global time domain for all units connected.
- Instant synchronization when connected.
- No wires - no extra cables needed for synchronization.
- Superior precision- to the microsecond.
- Patented technology.



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USB Interface

- Can be used with any USB host port. Designed for USB 2.0 (480Mbit/s). Backward compatible with USB 1.1 (12Mbit/s).

CAN Interface

- CAN bus driver stage is galvanically isolated to protect the hardware.
- Supports CAN 2.0A and 2.0B.
- Supports data and remote frames.
- Labelled CAN channel connectors for easy identification of the supported physical layer.

Application Interface

- Driver support for major operating systems.
- 100% compatible with applications written for LAPcan, PClcan, USBcan and other Kvaser hardware using CANlib API.
- Large on board message buffer - off-loads the computer.
- Improved CANlib to support the new features of the Kvaser Leaf family.
- Drivers and CANlib SDK are available for free on the web.

Product Versions

- Kvaser Leaf Professional HS / DSUB Item No. 00243-2
- Kvaser Leaf Professional HS/ OBD2 Item No. 00404-7
- Kvaser Leaf Professional LS Item No. 00261-6
- Kvaser Leaf Professional SWC Item No. 00264-7
- Kvaser Leaf Professional LIN Item No. 00269-2

Application support

- AFT MARC I™
- ATI Apollo™
- ATI CANlab™
- ATI Vision™
- Ficosa CANica™
- Kvaser CanKing™
- National Instruments DIAdem™
- National Instruments LabView™
- VAT2000™
- Vector CANalyzer™
- Vector CANoe™
- Warwick X-Analyser™
- **Xtm (distributed by agostec)™**

Supported Software

- Windows Vista, XP, 2000™
- Windows CE, Server 2003™
- Linux™

Technical Data

Kvaser Leaf Professional	CAN	LIN
Galvanical isolation	Yes	Yes
USB version	2.0&1.1	2.0&1.1
Temperature range	-40°C ...+70°C	-40°C ...+70°C
Max message rate	20000	20000
Time stamp	32/64	32/64
Error counters reading	Yes	N.A.
Error frames detection	Yes	N.A.
Error frames generation	Yes	N.A.
Auto transmit buffer	Yes	N.A.
Auto response buffer	Yes	N.A.
Clock accuray	1 µs	1 µs
Silent mode	Yes	N.A.
Clock synch. between multiple devices	Yes	Yes
Power Supply	USB	USB
Current consumption (mA @ 5V)	app. 70	app. 110
LED indicators	4	4
Sound indicator	Yes	Yes
Dimension approx.	100x25x20 mm	100x25x20 mm
Polyurethane cabling	Yes	Yes

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