

Kvaser Leaf Professional

with MagiSync™



Application Support

- ATI Apollo™
- ATI CANlab™
- ATI Vision™
- Ficoso CANica™
- Kvaser CanKing™
- National Instruments DIAdem™
- National Instruments LabView™
- VAT2000™
- Vector CANalyzer™
- Vector CANoe™
- Vector CANape™
- Warwick X-Analyzer™
- Xtm™

Supported OS

- Windows 98/ME/2000/CE/XP™
- Linux

Product Versions

- Kvaser Leaf Professional HS
- Kvaser Leaf Professional LS
- Kvaser Leaf Professional SWC
- Kvaser Leaf Professional LIN

The Kvaser Leaf Professional is a 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. Perfect for advanced CAN bus analyzers, data loggers and other applications.

General Features

- Easy use of multiple interfaces – connect any number of Kvaser Leafs 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.



USB Interface

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

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.

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, PCICan, 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.

Technical Data

Kvaser Leaf Professional HS	CAN	LIN
Galvanical isolation	Yes	Yes
USB version	2.0 & 1.1	2.0 & 1.1
Temperature range	-40 – +75 °C	-40 – +75 °C
Max message rate	20000	20000
Time stamp (bits)	32/64	32/64
Error counters reading	Yes	N.A
Error frame detection	Yes	N.A
Error frame generation	Yes	N.A
Auto transmit buffers	Yes	N.A
Auto response buffers	Yes	N.A
Clock accuracy	1 µs	1 µs
Silent mode	Yes	N.A
Clock synch. between multiple devices	Yes	Yes
Power Supply	USB	USB
Current consumption (mA @ 5V)	Approx 70	Approx 110
LED indicators	4	4
Sound indicator	Yes	Yes
Dimension approx.	100 x 25 x 20 mm (4 x 1 x 0.75 in.)	100 x 25 x 20 mm (4 x 1 x 0.75 in.)
Polyurethane cabling	Yes	Yes

The information herein is subject to change without notice

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