

Product Information



Kvaser Leaf Professional

USB to CAN Interface



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 analysers, data loggers and other 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.

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).

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	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

Application support

ATI Vision™
 ATI Apollo™
 ATI CANlab™
 Ficosa CANica™
 Kvaser CanKing™
 NI LabView™
 NI DIAdem™
 VAT 2000™
 Warwick X-Analyser™
 Vector CANalyzer™
 Vector CANoe™
 Vector CANape™
 Warwick X-Analyser™
Xtm™(distributed by agostec)

Software Platforms

Windows 2000/XP,
 Windows 98/ME, ...
 WinCE,
 Linux,