KVASER

Advanced CAN Solutions

Kvaser Leaf SemiPro

with MagiSync™

Application Support

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

Supported OS

- Windows 98/ME/2000/CE/XP™
- Linux

Product Versions

- Kvaser Leaf SemiPro HS
- Kvaser Leaf SemiPro LS
- Kvaser Leaf SemiPro SWC

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

Kvaser Leaf SemiPro is a product with high and reliable performance. With the patented Kvaser MagiSync™, all Kvaser Leaf SemiPro connected to the same USB hub are synchronized to a Virtual Global Clock, common for all time stamps.

Application Areas

Kvaser Leaf SemiPro is designed for medium performance tools requiring multi channel capability.

General Features

- Easy use of multiple interfaces – connect any number of Kvaser Leafs to a USB hub.
- When multiple units are used, their time stamps are automatically synchronized 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.
- 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 SemiPro HS	CAN
Galvanical isolation	Yes
USB version	2.0 & 1.1
Temperature range	-40 – +75 °C
Max message rate	15000
Time stamp (bits)	32
Error counters reading	No
Error frame detection	Yes
Error frame generation	Yes
Auto transmit buffers	No
Auto response buffers	No
Clock accuracy	25 µs
Silent mode	Yes
Clock synch. between multiple devices	Yes
Power Supply	USB
Current consumption (mA @ 5V)	Approx 70
LED indicators	3
Sound indicator	No
Dimension approx.	100 x 25 x 20 mm (4 x 1 x 0.75 in.)
Polyurethane cabling	Yes

The information herein is subject to change without notice

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