

# Product Information



## Kvaser Leaf SemiPro

*USB to CAN Interface*



The Kvaser Leaf Semi Pro is an 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.
- 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 USB 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.

### Product Version

- Kvaser Leaf SemiPro HS Item No. 00242-5
- Kvaser Leaf SemiPro LS Item No. 00260-9
- Kvaser Leaf SemiPro SWC Item No. 00263-0

### Application support

AFT MARC I™  
 ATI Vision™  
 ATI Apollo™  
 ATI CANlab™  
 Ficosa CANica™  
 Kvaser CanKing™  
 National Instruments LabView™  
 National Instruments DIAdem™  
 VAT 2000™  
 Warwick X-Analyser™  
**Xtm™ (distributed by agostec)**

### Software Platforms

Windows Vista, 2000, XP™  
 Windows Server 2003™,  
 WinCE™,  
 Linux™,

### Technical Data

Galvanical isolation	Yes
USB version	2.0&1.1
CAN interface	DSUB
Temperature range	-40°C ...+70°C
Max message rate	15000
Time stamp	32
Error counters reading	No
Error frames detection	Yes
Error frames generation	Yes
Auto transmit buffer	No
Auto response buffer	No
Clock accuray	25 µs
Silent mode	Yes
Clock synch. between multiple devices	Yes
Power Supply	USB
Current consumption ( mA @ 5V)	app. 70
LED indicators	3
Sound indicator	No
Dimension approx.	100x25x20 mm
Polyurethane cabling	Yes