Leaf Light HS

CAN Bus USB Interface for Vehicle Electronics

CAN communication interfaces are an inexpensive alternative to diagnostic interfaces. The Leaf Light HS from KVASER is a powerful hardware interface to be used for simple communication tasks in the After-Sales Service environment.

AREAS OF APPLICATION
- Simple communication tasks
- Applications in the After-Sales Service environment

ADVANTAGES
- Active interface with its own microcontroller
- Easy to use
- Lightweight and smart housing
- Inexpensive solution

CAN API

The programming interface from KVASER-Interfaces provides powerful communication mechanisms for CAN applications. Local buffering and preprocessing on the VCI result in high performance and a reduction of time-critical tasks for the PC.

D-PDU API

The standardized programming interface provides applications with powerful multi-channel communication mechanisms with vehicle protocols, such as Diagnostics on CAN (ISO 15765) and UDS (ISO 14229). It also allows integration into diagnostic systems in accordance with ISO 22900 (MVCI). D-PDU API is also available as an option.

Scalability

If your application requires more than one CAN bus at any time, the number of communication channels available at the PC can quickly be extended. This is simple to organize by combining the existing CAN interface with further CAN or EDIC® interfaces from Softing.

Flexibility

Combining Leaf Light HS with appropriate API software enables compact solutions for all kinds of communication applications. The KVASER programming interface thus supports reliable CAN communication on Layer2 in a simple way. The optional D-PDU API software makes communication channels with higher diagnostic protocols available to applications via the standardized API and thus relieves the application of standard tasks.

Technical Data

Format	Approx. 25 x 100 x 20 mm
Power supply	5V (via USB interface)
Current consumption	Typ. 70 mA
Microcontroller	16-bit microcontroller
PC interface	USB, Full Speed (12 Mbit/s)
Vehicle interfaces	1 x CAN 2.0B with 11-/29-bit identifier, D-Sub 9 connector in acc. with CiA standard
	Not galvanically isolated from PC interface
	CAN transceiver for CAN high-speed (in acc. with ISO 11898-2)
Status display	LED for power supply status
	LED for CAN status
USB cable	Approx. 110 cm with standard USB type A connector
CAN cable	Approx. 30 cm with D-Sub 9 connector
Temperature range	-20 ... +75 °C
EMC conformity	Noise emission: EN 55022 Class B
	Interference immunity: EN 61000-6-2 (industrial environment)
	FCC part 15 subpart B limit A (industrial environment)
Software interface	CAN Layer2 API from Kvaser (not 100% compatible to Softing CAN L2 API)
Delivery scope	Leaf Light HS hardware
	Quick Start Instruction
	CD with CAN-API software and documentation
System requirements	Operating system: Windows 7, Vista, XP

Order Numbers

LeafLightHS	Leaf Light HS hardware with CAN high-speed and D-Sub connector

Supplementary Products and Services

LeafLightHS-OBD	Leaf Light HS hardware with CAN high-speed and OBD connector in acc. with ISO 15031-3 / SAE J1939
PDUAPI-EC	Upgrade D-PDU API software for EDIC and CAN hardware from Softing on data carrier