



# smartCAR

Modular Communication Controller  
for CAN, LIN, K-Line and Diagnosis



**smartCAR** provides a **universal, modular and portable hardware interface** for the easy use of the communication interfaces CAN, LIN and K-Line by utilising externally connectable transceiver modules. smartCAR connects to the computer via USB 2.0.

Options include transport protocols, diagnosis and restbus simulation (executed onboard). Its compact design makes smartCAR a very flexible and portable test system.

## Typical Applications

- Mobile applications and test systems in the automotive industry
- Hardware interface for diagnosis applications
- Test solutions for mixed bus systems specified by the user

### Supported Protocols:

- » CAN 2.0 A, CAN 2.0 B
- » LIN 2.1
- » K-Line (ISO 9141)

### Exchangeable Transceiver Modules:

- » CAN (high-speed, low-speed, single-wire)
- » LIN
- » K-Line



Supported interfaces

### System Connection:

- » USB 2.0 (mini USB at the device)



### System Power Supply:

- » external 12/24 V
- » internal via USB (host interface)

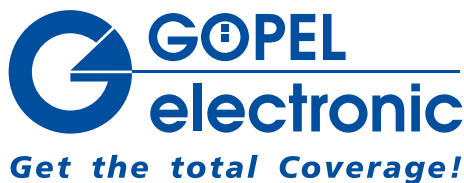
### UUT Connection:

- » 9-pin D-sub connector (female)

### Dimensions:

- » 110 mm (L) x 75 mm (H) x 27 mm (B)

Physical and electrical characteristics



ISO 9001 certified

## Hardware

- USB 2.0 interface
- 32 bit microcontroller for real-time requirements
- Physical layer (transceiver) exchangeable as external transceivers
- Compact housing for mobile application
- Power supply alternatively via USB or via application connector



## Software

- Sending and receiving messages
- Manipulating data content
- Monitoring of bus data and time stamp
- Available onboard diagnosis protocols
  - » KW2000 on TP1.6, TP2.0 and CAN-ISO-TP
  - » UDS on CAN-ISO-TP
  - » GMLAN
  - » K-Line protocols: KW1281, KW2000, ISO 9141 Ford
- Firmware updates (flashing smartCAR by the user) via host Interface possible
- User API (DLL) for efficient implementation into user specific applications
- Driver support for Windows® 2000 and XP
- LabVIEW® drivers available

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