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

**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
- 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

**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)