iLINsim

Simulation Interface for the LIN-Protocol

Hardware:

Simulation of up to four **LIN sensors**

Transmission rate up to **19.2 kBit/s**

System integration via **CAN-Bus** (up to 1 Mbit/s)

Software:

LIN-Master-functionality

LIN-Slave- functionality (synchronous or asynchronous)

LIN-interface parameter configurable on the fly (**Bit rate** and **Identifier)**

Analog signal-to-**LIN-Converter**

Realization of the **CRC-Checksum** in the LIN-Protocol

Feedback about **errors** from the iLINsim box

Data transmission can be handled from one-to-one implementation (e.g. simulation of fuel injection sensors) up to customer's specific requirement. All options are feasible with necessary software modifications.

Possible error injections:

- Manipulation of the **checksum** or **paritybit**
- Manipulation of the dataframe **length**
- Manipulation of the **Bitrate**
- **Simulation** of **electrical shortcuts** (KL31, KL30, GND etc.)
- **Disconnection** of the signal wire
    - *) supports LIN-Protocol V1.0 up to V2.2a

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