Digiteq Automotive

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CANSim4

CANSim4 is the successor to CANSim3, a widely used Rest-bus CAN simulator, which simulates the features of an entire car for the unit being tested. The device is capable of simulating several different units at the same time.

It is mainly used for testing MIB and ICAS units. It can also be used for testing other units, in various demonstrators and in all use-cases, which require CAN simulations.

The main advantages of CANSim4 are its small size, simple operation, comprehensive functionality and affordable price.

CANSim4 controls basic simulation signals using hand-held components, eliminating the need to use computer technology to control these signals.

Simulation signals (potentiometers)

- Speed (0–240 km/h)
- RPM (0–8000 rpm)
- Backlight (0–100 %)
- Steering wheel angle (± 800°)
- CNG, water temperature, clutch
- Outside temperature, accelerator
- Open / Close bonnet
- State of charge (0–100 %) for MEB

Simulation signals (switches)

- KL.S / KL.15
- Sleep
- Backlight (day and night modes)
- PDC & reverse

Key features

- 4× CAN interfaces (2 are CAN-FD compatible)
- 2× LIN interfaces
- 2× HS switches (e.g. KL.15 and KL.S simulation) and 1× LS switch
- BAP simulation
- RTC
- User programmable items – 6x potentiometers and 4x switches
- User-defined Rest-bus simulation
- 12x configuration DIP switches
- LED indication of CAN and LIN communication
- Network management NM high
- Mini USB interface for firmware update and remote control
- Possibility of customised firmware modification
- Remote control over API
- CANSim Studio (own application for configuration of .dbc matrix)

Operating modes

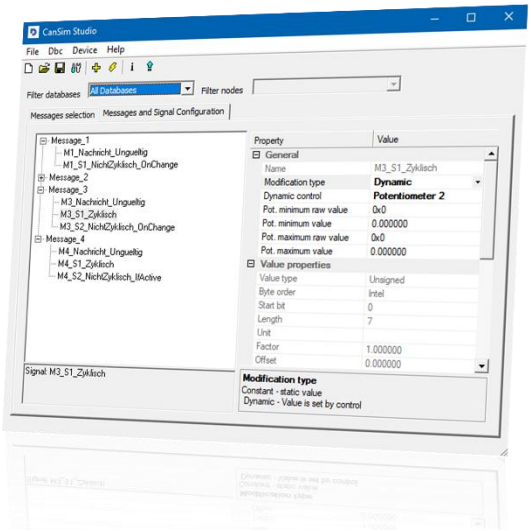
- 10 operating modes covering most applications
- Modes for MQB, MQB37W and MEB platforms
- Special modes for infotainment test benches
- Special mode for demonstration purposes
- Special mode for the MEB Test Bench (an IgnSwExtV1 module is required)
- Mode which generates a “No Crash” PWM-Signal (covering frequencies of 10 Hz and 100 Hz)

CANSim Studio

CANSim Studio is a desktop application which supports the CANSim4 device. It allows for the creation of user-defined simulations from a .dbc matrix.

Signals can be set to static or to dynamic values and assigned to CANSim4 control elements.

CANSim Studio also allows updating firmware automatically from the update server.



Technical parameters

Supported platforms	MQB, MQB37W, MEB
Weight	220 g
Dimensions (w × h × d)	72 × 35 × 148 mm (including connectors and control elements)
Power voltage	8.0 V to 18 V
Operating temperature	-20 °C to 70 °C while preventing condensation
Max. output load of KL.15 and KL.S	700 mA
Built-in CAN terminators	120 Ω, switched by DIP switches on the rear panel
CAN physical layer	In accordance with ISO 11898

The device complies with the VW80000 (2017-10) requirement for functional state A (all parameters OK) in operating mode II.c (maximum permissible load).

For ordering, further details and available accessories please contact us: business.products@digiteqautomotive.com