

Fully functional CAN – BUS network system is installed in a mobile aluminum frame. This CAN BUS training board is specially designed to help technical students understand the system's construction.

The educational training board is based on OEM components of Mercedes – Benz. The stand is equipped with a functional CAN GATEWAY 2.0 system.

The training board-simulator is a great educational tool that allows students to learn the structure of CAN gateway system, study its components, and perform various measurements, tests and other diagnostic procedures.

Technical specifications and functions

The training board is equipped with a CAN gateway 2.0 network system that includes:

- Dashboard
 - Engine ECU
 - Smart Key, ignition module, lock module
 - SRS Airbag ECU
 - Central CAN Gateway module (ECU)
 - Front and rear doors control modules
 - Front and rear windows lifting motors
 - Front and rear windows lifting switches
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- All the components are connected to the internal network. The Network is shown as a diagram in order to understand better;
 - The modules communications can be connected or disconnected by banana plug jumpers. Low and High speed CAN lines can be disconnected on the stand;
 - CAN gateway diagram with built in banana plug jumpers for measurements and simulation of system malfunctions;
 - Ability to simulate more than 10 system faults;
 - The window lifting motors are active and controlled by a switches and doors control modules through CAN gateway network of the car;

Diagnostic and measurement

Oscilloscope/multimeter

- System's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of system component

Control unit diagnosis

- Diagnosis through OBD 16 – pin diagnostic connector
- Diagnose all presented control units in the CAN bus network by using an automatic search (depending on the diagnostic tool possibilities)
- Diagnose of each control module separately
- Electronic control unit (ECU) identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Activating the actuators (depends on the control unit)
- Control unit encoding/configuration (depends on the control unit)

Other

- The stand has a closed structure – internal wiring is not visible
- Power supply: 12V from the battery (not included as standard accessory)
- Dimensions approx.: (HxLxW) 1820x1360x500 mm
- Nett weight approx.: 60 Kg
- Made in EU
- CE certificate

Optional accessories

- 12 V battery
- 220/12 V Power supply unit
- Automotive oscilloscope
- CAN Network analyzer
- OBD diagnostic scan tool