CAN. Connection to CAN-bus of Mercedes vehicles

User Manual

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Necessary Tools, Devices, Materials

To connect the Galileosky tracking device (hereinafter - tracking device) to the CAN-bus of Mercedes vehicles one should have:

1. Electrical tools.
2. Set of connecting wires, connecting USB-cable, cable of connection to the OBD-II diagnostic socket.
3. Windows-based computer with the installed program of configuration of Galileosky tracking devices — "Configurator". It is recommended to install the latest version of the program from the site https://galileosky.com/podderzhka/programmyi.html
General Information

CAN-bus of Mercedes trucks (Pic. 1) supports FMS standard (J1939). FMS standard (J1939) is commonly used, and all manufacturers of commercial vehicles have approved it. In accordance with the standard, all data are transmitted to CAN-bus in the encrypted form. Some manufacturers, for example, Scania or Volvo, set the automatic process in the vehicle electronics, and their on-board computer displays decrypted data.

In Mercedes vehicles information is transmitted in the encrypted form. To receive it in the understandable form it is necessary to have the Catel block with the activated decryption option in a vehicle. This option is activated in dealer`s service centers. There is also an opportunity to order a fabricated block with the activated option just by the vehicle order from a dealer.

Pic. 1
Mercedes vehicles
Connection to CAN-bus

To connect Galileosky tracking device to CAN-bus of Mercedes vehicles it is necessary to use the scheme, which is shown in Picture 2:

![Tracking device connection scheme to the Mercedes controlling system](image)

Dependong on models, Mercedes vehicles have different control units and, consequently, different connection contacts (Pic. 3 and 4).
Pic. 3
Connection scheme of the PSM-Module control unit

Pic. 4
Connection scheme of the GM-Module control unit
Setting of the Tracking Device

Setting of the tracking device should be carried out according to the “Connection to CAN-bus, general recommendations” user manual for the FMS mode. So that the tracking device receives information from CAN-bus correctly, it is necessary to run «ActiveCAN 1» command onCommands tab in the Configurator service program (Pic. 5).

![Pic. 5](image)
*Setting of the messages decryption mode*

It is necessary to make all further actions for the tracking device setting in accordance with the user manual.

Connection of the vehicle’s CAN-bus to the Galileosky tracking device is finished, the device is ready for use.

RSA “Galileosky”, LLC produces satellite monitoring equipment for GPS and GLONASS real time vehicles monitoring. The tracking devices determine the mobile object location recording the time and route as points with geographical coordinates and send the data to the server to be further processed and sent to the traffic controller panel.

In addition, a number of other vehicle parameters are recorded: the state of analog and discrete inputs of the tracking device and the state of digital interfaces.

The tracking devices can be used in any vehicle.