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Necessary tools, devices, materials

To connect to CAN-bus of Hyundai H1 vehicles via CAN interface of Galileosky tracking devices it is necessary to have:

1. Electrical tools.
2. Set of connecting wires, USB-cable, cable for diagnostic outlet OBD-II connecting.
3. A computer running Windows with the installed service software for configuration of Galileosky tracking devices - "Configurator". We recommend you to install the latest version of the service software from our site https://galileosky.com/podderzhka/programmyi.html
4. Tracking device version 7.x or BaseBlock with firmware version later than 17
General Information

Hyundai H1 CAN-bus operates in accordance with J1979 protocol. Unfortunately, it is impossible to get all the necessary parameters using it, since the functionality is limited by the car manufacturer. Some data are present on the CAN bus in a format, that is not described in J1979 protocol. This algorithm allows to obtain the specified undescribed data, as well as the main standard parameters of J1979.

ATTENTION! This functionality is implemented by means of Easy Logic technology (https://galileosky.com/products/easylogic.html). It is necessary to use tracking devices with Easy Logic support.
Connecting CAN-bus

The OBD-II diagnostic outlet can act as a connection point to the CAN-bus of the vehicle (Pic. 2).

The pinout description of the specified diagnostic connector, as well as detailed ways of connecting to the CAN-bus are given in the User Manual “CAN-bus. Connection to the CAN-bus” on our web-site https://galileosky.com/podderzhka/dokumentacziya.html.
Tracking device setting

To enable the tracking device to work with this algorithm it is necessary to choose "EasyLogic CAN handler" filter type in CAN section of Configurator (Pic. 3).

Then, upload the algorithm to the tracking device. For that run the command "script galileosky_can/Hyundau_H1".

ATTENTION! The algorithm "galileosky_can/Hyundau_H1" is incompatible with other algorithms, that involve CAN-bus.

ATTENTION! The algorithm is downloaded from Galileosky information resources that's why a working SIM-card with supported GPRS should be inserted into the device.

Then go through the data, which can be analysed and sent to the server by the algorithm (Table 1).

Table 1

<table>
<thead>
<tr>
<th>Can8bitr1</th>
<th>Coolant temperature</th>
<th>Current temperature, in °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can8bitr2</td>
<td>Throttle position</td>
<td>Measured in %</td>
</tr>
<tr>
<td>Can8bitr3</td>
<td>Accelerator pedal position</td>
<td>Measured in %</td>
</tr>
<tr>
<td>Can8bitr4</td>
<td>Brake pedal position</td>
<td>Measured in %</td>
</tr>
<tr>
<td>Can16bitr0</td>
<td>Engine speed</td>
<td>Measured in rpm</td>
</tr>
</tbody>
</table>
CAN. Connecting Hyundai H1 CAN-bus  
(version 4 dated from February 21, 2019) 

To send these data to the server, go to Settings tab -> Protocol of the Configurator software and specify the corresponding tags of the Main packet (Pic. 4).

Connection of CAN-bus to Galileosky tracking devices is completed, the tracking device is ready to 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.