RS485. Integration with iQFreeze

User Manual
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Necessary tools, devices, materials

To connect Galileosky tracking device (hereinafter – tracking device) one should have:

1. Electrical tools.
2. A set of connecting wires.
3. A computer with Windows-based operating system and an installed configuration program for Galileosky tracking devices – «Configurator 4.0» or higher version. It is recommended to download the latest version from the site https://galileosky.com/podderzhka/programmyi.html
General Information

Galileosky tracking devices (hereinafter – tracking devices) equipped with RS232 interface support operation with iQFreeze* loggers (pic. 1).

iQFreeze* logger can be connected to and obtain data from the following types of refrigerating units:

- ThermoKing;
- Carrier Supra/Maxima;
- Zanotti UNO;
- Thermal Master;
- Carrier Vector.

Documentation on iQFreeze* logger and software are available on the manufacturer’s site http://iqfreeze.ru in the Russian language only.

Galileosky tracking devices allows to record and send parameters received from the specified refrigerating units to the monitoring server.

**ATTENTION!** Such functionality is implemented in the tracking devices by means of algorithms. It is needed to use the devices with algorithms support. You can find out whether the tracking device supports algorithms or not by the following ways:

- in device’s specification there should be abbreviation (Al) or the sticker on the back of the device should have abbreviation (2) next to IMEI (pic.2).
- send Hardversion command to the tracking device, if you receive numbers different from zero after comma in response, algorithms are supported (example of reply: HARDVERSION=21,8243)
Firmware version 231 or higher is required for Galileosky v.2.3, v.5.0, v.5.1 to support such functionality, firmware version 1.5 or higher is required for Galileosky Base Block and firmware version 1 or higher for Galileosky 7.0.
Connection of iQFreeze* Logger to the Tracking device

iQFreeze* logger is connected to the tracking device via RS232 interface in accordance with the schemes provided in picture 3.

ATTENTION! Grounds (GND) of the tracking device and the logger must be connected. RS232 contacts must be connected strictly according to the scheme RXD of iQFreeze* logger – TXD0(1) of the tracking device and TXD of iQFreeze* logger – RXD0(1) of the tracking device. Power supply is provided to the devices separately.
Presetting of iQFreeze* Logger

Before configuring Galileosky tracking device, presetting of iQFreeze* logger is required. Execute the following actions:

1. Connect iQFreeze* logger to your PC via mini-USB cable.
2. Run software “Configurator iQFreeze* – version 3.8.062” (or higher).

**ATTENTION!** Software “Configurator iQFreeze*** is provided by the manufacturer of iQFreeze* logger.

3. Tick “Additional” field in the window of iQFreeze* Configurator (pic. 4).

4. Select a necessary type of refrigerating unit in the field “Refrigerating unit type” (pic. 5).

5. Click “Apply” button. Logger settings will be saved.

The logger is ready to operate.
Setting Device to Operate with iQFreeze* Logger

Setting of Galileosky tracking device is carried out via software “Configurator” in the following order:

1. Insert a SIM-card into the tracking device with support of data transmission via GPRS.
2. Connect the device to your PC via mini-USB cable and run “Configurator” software.
3. Go to tab “Commands” in Configurator and execute “script galileosky/iQFreeze” command and wait for confirmation of command by the tracking device (pic. 6).

4. Make sure the algorithm has been successfully downloaded to the device by sending command “script” (pic. 7).
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5. Go to tab “Settings” -> “Track” and select a “Dynamic” value in field “Archive structure mode” (pic. 8).

6. On tab “Settings” -> “Digital inputs” select “Nothing” in field “RS232 peripheral type” (pic. 9).
7. Go to tab “Settings” -> “Protocol” and tick “Refrigerator (dynamic archive only)”, Main packet (pic. 10).

8. Apply settings by clicking “Apply” button.
Setting Monitoring Software

After device setting, check receiving of data by monitoring software from iQFreeze* logger.

Depending on the type of refrigerating unit connected to iQFreeze* logger, Galileosky tracking devices allow to transmit various parameters to the monitoring server. The list of possible parameters depending on the type of refrigerating unit is provided Protocol Description. Number of parameters depends on the refrigerator type, its configuration and firmware version of iQFreeze.

Setting of iQFreeze* logger connection to Galileosky tracking device is completed, the tracking 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.