

Automotive tracker  
Brand: GLONASSSoft  
Model: UMKa310

PASSPORT

БЭРМ 022.000.000 ПС



## 1 BASIC INFORMATION AND TECHNICAL CHARACTERISTICS

The tracker is designed to be installed in vehicles as auxiliary equipment for tracking vehicle location, speed and movement direction. An extra range of parameters is logged as well, e.g.: analog input status, digital input status and sensor readings.

The tracker also provides peripheral control for equipment connected to the discrete output. Event and status logs are stored in the non-volatile memory.

Accumulated data is transmitted over GSM mobile network using GPRS technology to dedicated servers with static IP addresses or domain names. The data on servers is accessible via the Internet for further processing and analysis on a dispatcher console.

The main technical characteristics are listed in Table 1.

Table 1 – Technical characteristics GLONASS/GPS tracker model UMKa310

<b>Feature</b>	<b>Value</b>
<b>Navigation systems</b>	GPS, GLONASS
<b>Number of GNSS Receiver Channels</b>	Tracking – 33, acquisition – 99
<b>GNSS Receiver sensitivity</b>	-166 dBm (GLONASS + GPS)
<b>Main data transmission channel</b>	GSM 850/900/1800/1900
<b>Modulation Type</b>	GMSK
<b>Operating Frequency Range</b>	Tx: 824 - 849 MHz; 1850-1910 MHz; Rx: 869-894 MHz; 1930 - 1990 MHz
<b>Transmission Power</b>	1800/1900 MHz
<b>Communication Standards</b>	GSM, GPRS, Bluetooth
<b>Bluetooth Transmission Power</b>	2.4 GHz - 0.4mW
<b>Number of SIM card slots, form factor</b>	1, nano-SIM (4FF)
<b>Antenna type</b>	Internal
<b>PC gateway</b>	USB, Bluetooth
<b>Number of spots in the tracker memory</b>	Up to 10000
<b>Number of analog inputs</b>	1
<b>Analog input voltage range, V</b>	0...40
<b>Number of discrete outputs</b>	1
<b>Built-in accelerometer</b>	Yes
<b>RS-485 interface</b>	Optional
<b>Bluetooth interface</b>	Yes, v4.0
<b>Supply voltage, V</b>	8...40
<b>Consumption current (at a voltage of 13,8 V), mA</b>	Average - 35, max. – 160
<b>Positional accuracy, m</b>	<2.5
<b>Velocity accuracy, m/s</b>	0.05
<b>Temperature range, °C</b>	-40...+85
<b>Dimensions, mm</b>	33x64x13
<b>Max weight, g</b>	40
<b>Case protection rating</b>	IP54

## 2 OUTPUT DESCRIPTION

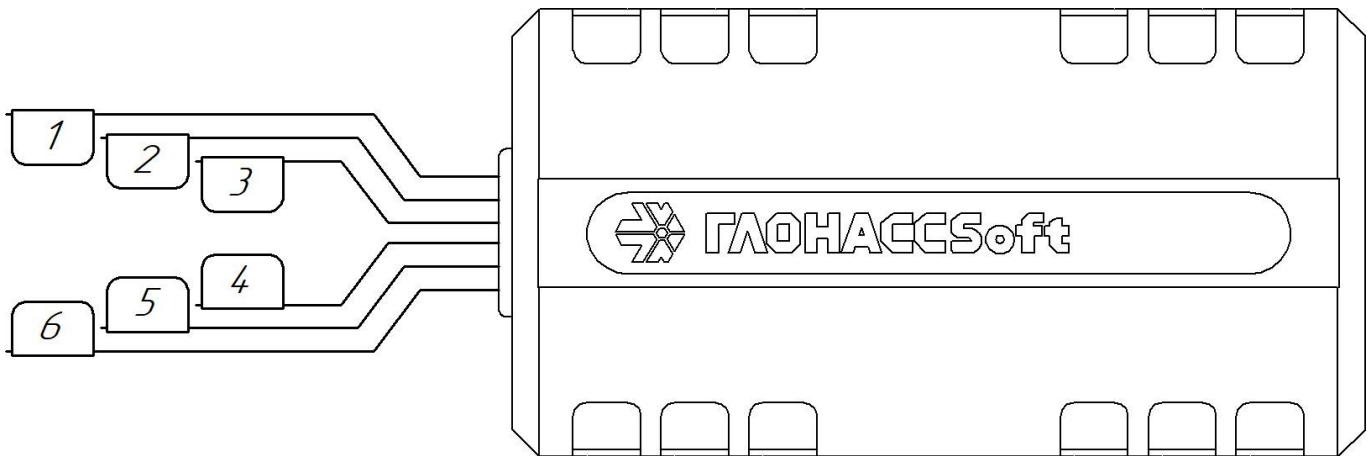


Table 2 - Pin assignment

Pin number	Assignment	Pin number	Assignment
1	GND (black)	4	VDC (red)
2	Discrete input-output(blue)	5	Line B (white)*
3	Analog input (green)	6	Line A (yellow)*

\* - for UMKa310.R.

## 3 CONTENTS OF DELIVERY

Contents of delivery includes:

- GLONASS/GPS tracker – 1 unit.
- Passport – 1 unit.

## 4 WARRANTY LIFE AND MANUFACTURER WARRANTY

Warranty life – 5 years from the manufacture date. The manufacturer promises to repair the UMKa310 tracker free of charge within the warranty period (or replace it with the device of a similar modification). This warranty is legally valid when the device is submitted together with the rightly and legibly completed complaint form (you can find the form at <https://glonasssoft.ru>). Customers deliver the device to the place of repair by their own means. The manufacturer shall not be liable for damages to property, or persons, or any other damages suffered by the UMKa310 owner or the third party due the failure to comply with the rules of transportation, storage, installation and operation specified in the Operating Manual. The tracker service life is 5 years. The warranty does not cover:

- defects caused by the failure to comply with the rules of transportation, storage, installation and operation specified in the Operating Manual;
- connecting wires, slots, pins and SIM card holders;
- trackers without casing or with mechanical damages and defects (cracks and nicks, dents, traces of blows, etc.) caused by the customers due to violating operating, storage and transportation conditions;
- trackers with traces of corrosion or other signs of fluid exposure;
- trackers with the signs of an unauthorized repair or upgrade;
- trackers with electrical and/or other damages due to the invalid condition of the external electrical circuit or improper use of the tracker;
- trackers that failed due to unauthorized software updates.

## 5 PACKAGE

The UMKa310 tracker can be packaged at individual or group cardboard package. It designed for 20 trackers and mounting kits.

## 6 ACCEPTANCE CERTIFICATE

UMKa310 tracker with serial number and date of manufacture:



The product meets these technical specifications: TY 26.30.11-001-29608716-2017.

The manufacturer reserves the right to modify design, technical characteristics and software without notice.

Contact this address to get information on the latest changes:

Manufacturer: Internet Veshchey.

Address: Zipovskaya, d. 5, korp. 1, liter 2B Krasnodar, Krasnodar Krai Russia 350010

website: <http://glonasssoft.ru>

## 7 TRANSPORTATION STORAGE

When transporting and storing, comply with the technical specifications TU 26.30.11-001-29608716-2018. Transportation by water (besides sea) is carried out in a sealed package or in dry sealed compartments or containers. Transportation by air is carried out in the sealed compartments. After transporting the tracker at subzero temperatures, it is necessary to keep it at room temperature for 24 hours.

Storage conditions in terms of climatic factors have to meet storage conditions ОЖ4 ГОСТ 15150-69.