

**GPS-tracker**

**Voyager 6N**

Data sheet

Device identification number

## 1. General Information

The fully autonomous and sealed GPS-tracker Voyager 6N (hereinafter referred to as the device) is designed for vehicle searching in case of theft. The device could be installed on a vehicle and transfer location data at predefined time or in real time.

Device is equipped with a built-in motion sensor.

## 2. Manufacturer

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St Petersburg, Russia  
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## 3. Package Contents

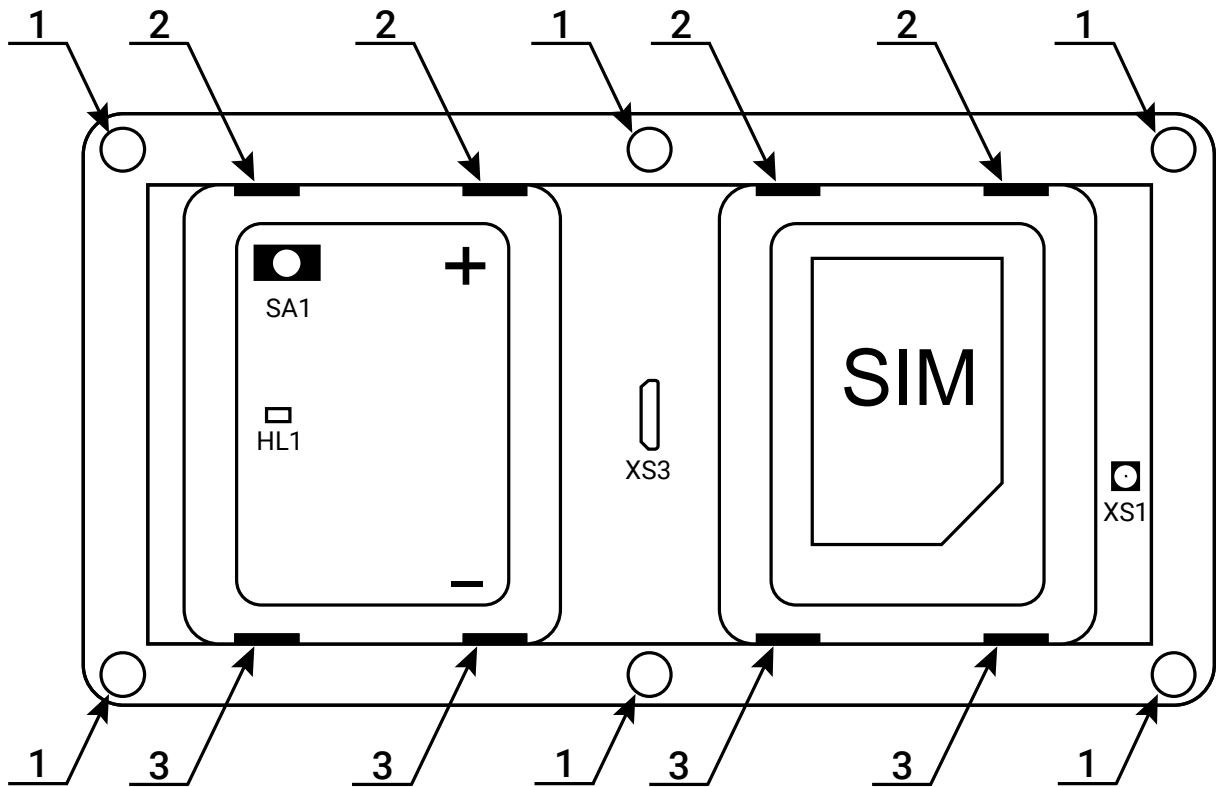
GPS-tracker Voyager 6N	1 pc
Battery CR123A 3V	4 pcs
Screw A2 2×14 DIN965	6 pcs
Data sheet	1 pc

#### 4. Technical Specifications

Specification	Value
<b>Location determination</b>	
Used satellite systems	GPS, GLONASS
GPS, GLONASS antenna	Built-in
<b>Communicator</b>	
GSM frequency range, MHz	850/900/1800/1900
Quantity of SIM cards, pcs.	1
GSM antenna type	Built-in
<b>Sensors</b>	
Built-in motion sensor	Yes
<b>Power supply</b>	
Operates on replaceable batteries CR123A 3V	2 – 4
<b>General specifications</b>	
Configuring via Micro-USB cable	+
Configuring via SMS	+
SMS notification service	+
Non-volatile memory, “black box”	57890
Board buttons	“Test”
Internal indicators	GPS receipt test
<b>Design features</b>	
Weight, g	60
Leak resistance rating	IP67
Dimensions, mm	25×50×81
Operating temperature range, °C <sup>1</sup>	-40...+55

<sup>1</sup> Without including battery specifications.

## 5. Designation of Elements



Element	Designation
1	Holding bolt holes.
2, 3	Battery connection contacts.
XS3	USB-cable connector for configuration.
SA1	"Test" button to recover the device from the sleep mode.
XS1	GSM antenna.
HL1	"GPS receipt test" indicator.

## 6. Visual Indication

Indicator state	Mode
Off	Indicator off or device deenergized.
Blinks rapidly (5-7 Hz)	Satellite search to determine location.
Blinks infrequently (1 Hz)	Satellites found, coordinates defined.

The indicator is active for 30 seconds after "Test" button pressing. Press the "Test" button again to turn the indicator off.

## 7. Getting Ready for Operation

1. Configure the device prior to installation to a vehicle (hereinafter referred to as the vehicle). Using the configuration software connect to the device by one of the following ways:
  - **Desktop configuration.** To connect use a Micro-USB cable and the configuration software ritm.conf or Ritm Configure<sup>2</sup>.
  - **Remote configuration via digital GSM.** To connect use a GSM CSD channel and the configuration software ritm.conf or Ritm Configure.
  - **Remote configuration via TCP/IP<sup>1</sup>.** To connect use a GSM GPRS channel and the cloud configuration software<sup>3</sup>.



To use the configuration software ritm.conf or Ritm Configure download it from the website of the “Ritm” company and install all required drivers.

To connect via a digital CSD-channel make sure the digital data transmission service (CSD) is accessed and there are enough funds on the account of the SIM-card installed into the device.

Remote configuration via CSD is only possible from the engineering phone numbers.

2. Enter valid APN settings.
3. Select the required operation mode and track record options.
4. If necessary correct the history content.
5. Prior to inserting a SIM-card into the device, insert it into a mobile phone. Turn off the PIN code entry feature, check availability of data links that are supposed to be used (CSD, GPRS), and check if the account balance is positive.
6. Insert a SIM card into its SIM-card box.
7. Install batteries respecting the polarity.
8. Check the connection with the satellites.
9. Close the cover and fasten it with provided bolts.
10. To install the device, choose an appropriate location, which is most protected against atmosphere effects, dirt, process fluids, physical impact and prevents free access of unauthorized persons. Make sure the device is located at least 0.5 m from all EMI (generators, loudspeakers, etc.) sources.
11. Place the device with batteries pointing downwards so the antenna is oriented upwards providing good coverage. We do not recommend to place the antenna in locations that inhibit satellite signals due to metal parts of the vehicle.

<sup>2</sup> It is available at <http://www.ritm.ru/en/downloads/>

<sup>3</sup> Only with GEO.RITM and RITM-Link software.

## **8. Maintenance and Safety Measures**

All installation and maintenance activities applied to the device should be performed by duly qualified personnel.

## **9. Transportation and Storage**

The device should be properly packed and transported in roofed vehicles. Storage premises should be free of current-conducting dust, acid and alkaline fumes, corrosive gases and gases harmful to insulation.

## **10. Manufacturer's Warranties**

The manufacturer guarantees that the device complies to requirements of the technical specifications provided to the client, ensures compliances to conditions of transportation, storage, installation and operation.

Developer and manufacturer guarantees full operation of the device only with the monitoring software GEO.RITM. Not guaranteed to work with other monitoring services (the device works "as is").

Warranty repairs of the device are done throughout the life cycle. The manufacturer's warranty does not cover the batteries.

**The device life cycle** is 6 years (provided the operating conditions are observed).

The manufacturer shall not be responsible for quality of data links provided by GSM operators and Internet service providers.

The manufacturer reserves the right for modification of the device in any way that does not degrade its functional characteristics without prior notice.

## **11. Information on Claims**

In case of a device failure or defect during the warranty period, please fill out a malfunction report specifying the dates of the release and when the device was installed as well as the nature of the defect and submit it to the manufacturer.

**For notes**

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