ritm

GSM-modem

Ritm

Data sheet

Device identification number

1. General Information

GSM-modem “Ritm” (USB) (hereinafter referred to as the modem) is designed for remote configuration of “Ritm” control panels through the digital channel GSM CSD.

2. Manufacturer

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Energetikov avenue, building 30, block 8,
St Petersburg, Russia
Tel.: +7 911 795 02 02
www.ritm.ru/en world@ritm.ru

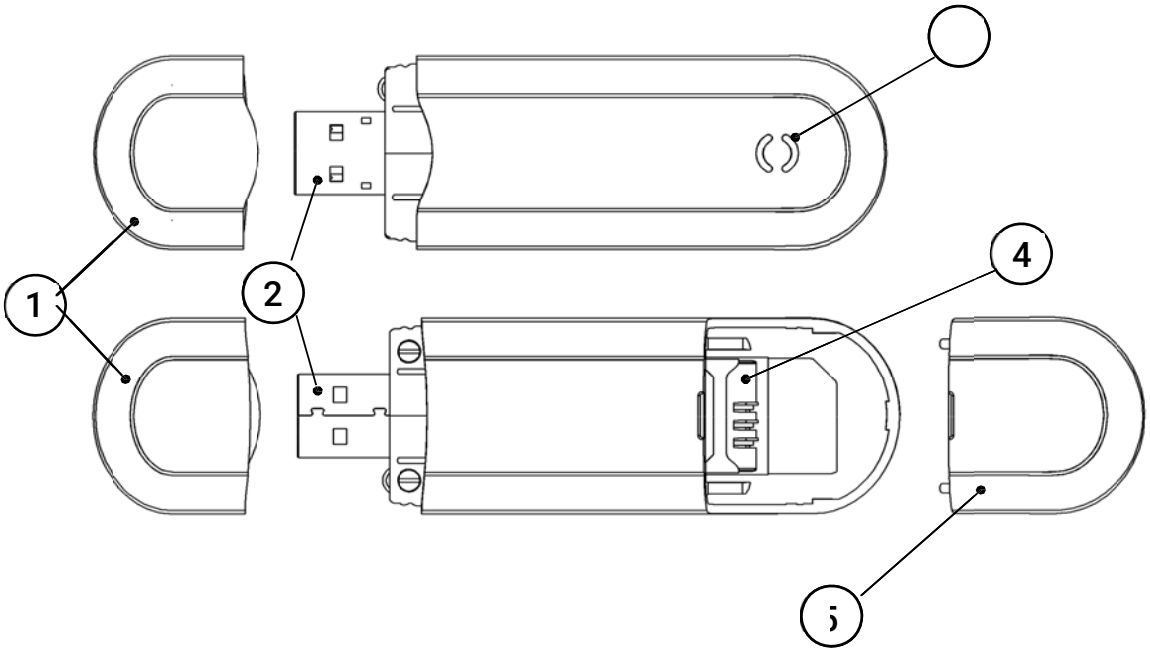
3. Package Contents

GSM-modem “Ritm” (USB)	1 pc
Data sheet	1 pc
Package	1 pc

4. Technical Specifications

Specification	Value
GSM Standard, MHz	900/1800/1900
Communication channels in the GSM network for data transmission	CSD, SMS
GSM radiated power	Class 4 (2 W 850/900 MHz); Class 1 (1 W 1800/1900 MHz)
Data transmission speed in the GSM network, kbit/s	9600
Supply voltage, V	5 ±10% (USB)
Device energy consumption, mA, max	450
Dimensions, mm	88×28×11
Weight, g	20
Operating temperature range, °C	−30…+50

5. Designation of Elements



Element number	Designation
1	Protection cap
2	USB connector
3	LED indicator
4	SIM-card holder
5	SIM-card section cover

6. Getting Ready for Operation

Insertion of SIM card should always be performed with the power off!

1. Download the driver[1].
2. 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 to be used (CSD[2], SMS), and check if the account balance is positive.
3. Open the device enclosure cover and insert the SIM card into the SIM card holder (element number 4).
4. Connect the device to USB connector on your PC. It is recommended to connect modem directly to the PC without the extenders and hubs. Connect your laptop to power 220V.
5. The LED indicator will show the registration in GSM network:

Status	Description
Blinks fast	No registration
Blinks slow	Successful registration in GSM network

[1] http://www.ritm.ru/documentation/program/GSM-modem_Ritm/Drivers.zip

[2] CSD is a digital channel in the GSM network which is necessary for a remote connection to "Ritm" control panels. Different operators can call this service in different ways.

7. Setup Using the Configuration Software

1. After connecting to PC open the “Device Manager” and go to page “Ports (COM & LPT)”. The device named “Silicon Labs CP210x USB to UART Bridge (COMX)” will appear (X is a port number).
2. Run the software where you want to use this modem.
3. Set-up your software.

For example, in the “Ritm Configure” or “ritm.conf” choose:

- **Connection type:** CSD (GSM modem);
- **COM port:** port number (see in “Device Manager”);
- **Phone number:** phone number of the SIM card, installed into the device you need to connect (in international format).

Press the **Connect** link.

8. Maintenance and Safety Measures

At least once per year check the integrity of leads and cables, connection locations, and fastening security.

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.

Although **the warranty period** is 12 months from the commissioning date, it may not exceed 18 months from the production date.

The **warranty storage period** is 6 months from the production date.

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

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 in a malfunction report specifying the dates of issue and commissioning of the device and nature of the defect and submit it to the manufacturer.