GSM Gateway Follow Me Digital

User manual

Ver. 1.1

This document contains technical information and user manual for GSM Gateway Follow Me Digital. In this document you can find information how to connect and configure GSM Gateway Follow Me Digital.

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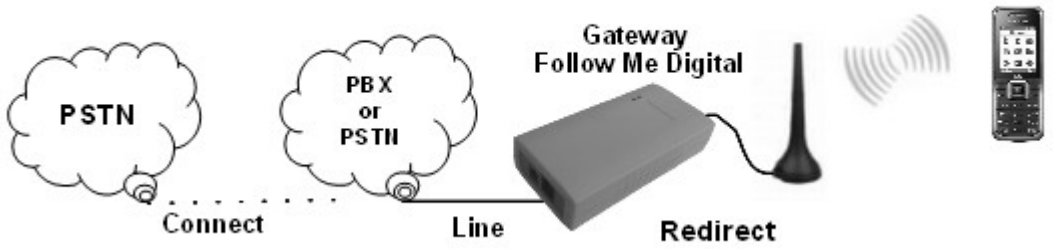
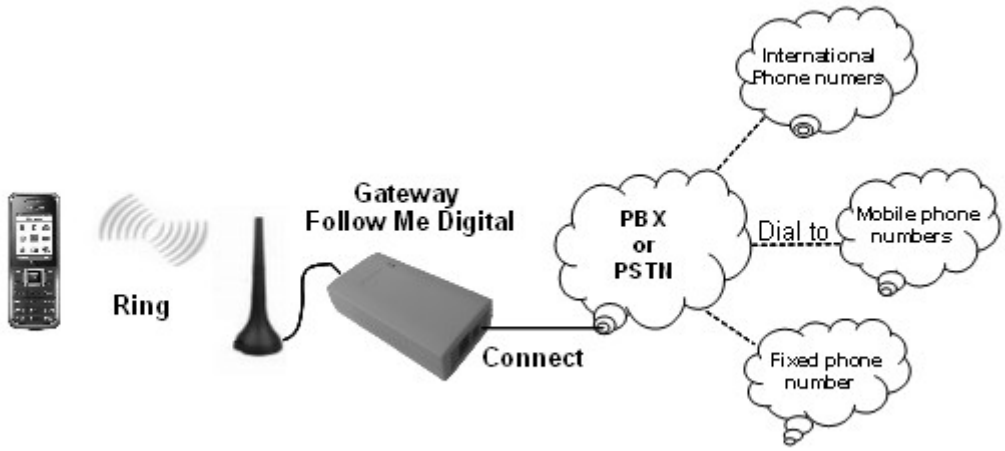
Introduction

GSM Gateway Follow Me Digital is design to meet the latest requirements and trends in the telecommunications and electronic equipment.

GSM Gateway Follow Me Digital is design to connect directly to phone line or internal post of phone exchange and redirect the incoming calls from that line to one mobile phone number. The phone number to which the calls are redirected have to be set in the device in advance.



When someone dial the phone number of the SIM card inserted in GSM Gateway Follow Me Digital, the device connect you to the phone line and you can dial a phone numbers through this line or to dial internal posts of phone exchange if the unit is connected to this kind of technique.



1. Contents of the package

GSM Gateway Follow Me Digital is delivered to the client in cardboard box with all required supplements necessary for work. Package consists of:

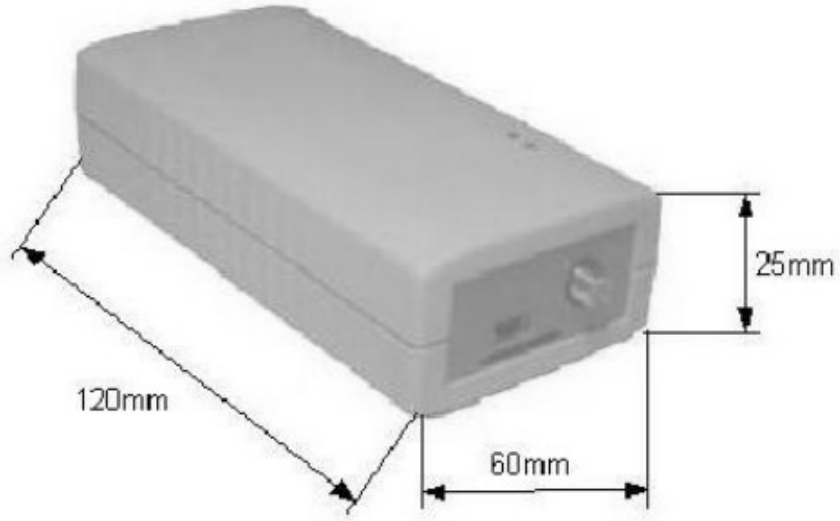
- GSM Gateway Follow Me Digital;
- AC/DC power supply 220V/12V, 500mA;
- External antenna with 3m cable;
- USB cable (USB type A ⇔ mini USB type B);
- CD with software for configuration and user manual;
- components for mounting;
- guarantee card.

Please check if all components described in the kit are contained in the cardboard box. If any of the components is missing from your package, please contact manufacturer's representative or salesperson.

Note: The manufacturer does not provide SIM card, which is necessary for connecting to the GSM network! SIM card can be obtained only from licensed GSM operators!

2. Technical parameters

2.1 Dimensions



2.2 Operating characteristics

- Weight: 200 gr
- Operating temperature: 0 ÷ 45 ºC
- Storage Temperature: -10 ÷ 60 ºC
- Humidity: 10% ÷ 90%

2.3 Electrical characteristics

- Power supply: 12 VDC
- Consumption in Stand By mode: 110 mA
- Maximum consumption: 300 mA
- Average power consumption: 1.3 W
- Maximum power consumption: 3.6 W

2.4 Antenna

GSM Gateway Follow Me Digital comes with external antenna. Description of how to mount the antenna and how to connect it to the device you can find in chapter 3 - “Getting started” in the document.

Parameters of the antenna:

- Connection to device: SMA connector, male, straight
- Impedance: 50 Ω;
- Gain: 3 dB A;
- Length: 105 mm;

- Length of the cable: 3 m;
- Magnetic backing for mounting to magnetic surface

Note: The manufacturer is not responsible for the occurrence of noise and interference during a call if using other antennas

2.5 GSM Network

- Frequency range: GSM 900 / 1800 MHz.
- Output power: class 4 (2 W) for EGSM 900; class 1 (1 W) for GSM 1800
- SIM Card – 3V, Plug-in

2.6 Interface

For configuration and firmware update use USB cable which is included in the set.

Description of settings you can find in chapter 4 - “Configuration and update of software”

Interference parameters:

- USB interface: USB 1.0
- USB type: mini USB type B
- phone line: RJ 11 (pin 2- tip; pin 3-ring; pins 1 & 4 – not used)

2.7 LED indication

Indication of the unit is consist of two LEDs which shows its moment status. The statuses depends of led indicators is shown in table 1:

LED	status	Modes of GSM Gateway Follow Me Digital
red	light	Starting mode
red	flash	Working mode
green	light	Phone line is busy
green	flash	Working mode. Conversation is available.
red + green	light	Emergency mode

Table 1: LED conditions

3. Getting started

3.1 SIM card and antenna connection

Before you start the device insert SIM card and switch the antenna as it shown on picture 2.

picture 2

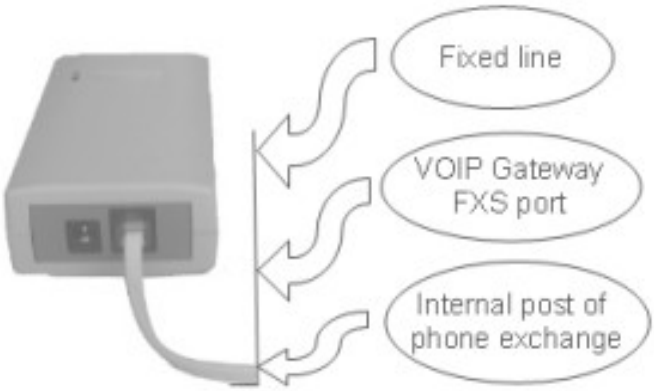
Note: SIM card inserted in the device must be with disabled PIN code. In other case the device will not start properly.

Note: Put the antenna in place where you are sure it has good GSM network coverage. Places with bad coverage (basements, villages etc.) may cause the normal start up of unit and lead to occurrence of noise during dialing or calls.

3.2 Connection to phone line or phone exchange and connecting to PC

Connect the device to phone line (Fixed line, VoIP line, etc.) or to internal post of phone exchange as it shown of the picture 3.

In case of installation a new software to the device, connect it to PC in the way as it shown on picture 4.



Picture 3

Picture 4

3.3 Connection of power supply

If you are sure that SIM card is inserted, the antenna is switch and the phone line is connected to the device you can connect power supply.

We strongly recommend you to use the adapter which is included in the set. If you use adapters different from this in the set the manufacturer are not responsible for damage caused by using other power supply.

3.4 Start the device

If you done all steps described in 3.2 and 3.3, the device will start working. Initially the red led will light constantly and when it connect with GSM network it will start flashing. The device is now ready for use.

If you want the device to work accurate you have to program it with proper configuration file. To redirect the calls to a mobile number you have to set this number in configuration file.

Most common reasons for failure to start the unit:

- You forgot to insert SIM card in the unit
- You forgot to disable the PIN code of the SIM card
- The antenna is put in place with bad coverage of GSM network
- your power supply does not meets the requirements

If launching the device fails for any reason not mentioned above please contact the technical staff for more information and assistance.

4. Configuration and software update

4.1 Software configuration

After successfully launching the device you are able to change its parameters and functions.

The most important setting for proper work of the device is to put the right phone number, to which all calls will be redirected, in the configuration file.

Description and more information of all functions and how do they set you can find in chapter 5 - “Functions of GSM Gateway Follow Me Digital” or in file „**Configurations of GSM Gateway Follow Me.pdf**“, which you can find in Install CD included in the package set.

4.2 Firmware update

If you want to install newer firmware version please visit our website at www.elexim.com/downloadbg.php and download the newest version for your unit.

Detailed information about firmware installation can be found in file - **„Firmware update of GSM Gateway Follow Me - Digital.pdf“** in your Install CD included in the package set.

5. Functions of GSM Gateway Follow Me Digital

5.1 Phone number for function “redirect”

Function “Redirect” is made to forward all incoming calls from the phone line or internal post of telephone exchange, to which the device is connected, to phone number predefined in configuration file. When someone call the number of your phone line the device dial that number and when you pick up that call the connection between phone line and your GSM is establish. The conversation and taxing begin when you answered from your GSM not earlier.

In configuration file the setting for function “redirect”, which forward all calls, is: **GWC+RNUM=xxxxxxxxxx**,

where at “**xxxxxxxxxx”** you have to write down the phone number to which the calls are redirected.

5.2 Impedance of the phone line

Telephone line has a complex impedance consisting of resistive, capacitive and inductive components. Most popular standards using in most countries are 600 Ω and 900 Ω. There is more than 15 standard and every country use one of them.

Differences between standards used in electronics and phone lines connected to them, may cause of occurrence of return signal, which is heard as echo in the handset during a call.

GSM Gateway Follow Me Digital allows to set this impedance depends of the line impedance to which is connected. You have to choose the right value in the configuration file. The setting for changing the impedance is: **GWC+ACIM=n**, where, „n" is set from 0 to 15 depends of standard of your phone line. Each number correspond to particular standard. You can find all standards listed in a table in the configuration file.

If you find difficulties defining the impedance of the phone line please contact your telephone operator for assistance.

5.3 CLIR

Function CLIR offer you hiding your number when you make outgoing calls. Activation of this function is done in configuration file of the unit and the setting is: **GWC+CLIR=n,** where

if n=0 - function is inactive,

if n=1 - function is activated and your phone number will be hidden.

This function is not useable in model GSM Gateway Follow Me Digital because you will not see the number of SIM card inserted in the device.

5.4 Volume of the signal in handset

You to set the volume of the signal in the handset.
The setting in configuration file is: **GWC+SPVOL=n**, where "n" can be adjust from 0 to 100.

5.5 Incoming calls restriction

The device allows restriction of all incoming calls to the SIM card inserted in unit, except the numbers write in the list of "authorized access numbers". This is strongly recommended to be activated to restrict people to gain access to the phone line and to make unauthorized calls through it.

The setting for this restriction is :**GWC+ICPM=n ,** where

if n=0 - all calls are allowed

if n=1 - only phone numbers write in the list of "authorized access numbers" will be allowed.

5.6 Default settings

You can restore default setting of the unit every time you want. Just go to installation CD and upload configuration file without make any changes.
Default settings:

- Set time interval between dialing and connecting – 3000 ms
- CLIR – no
- Volume of handset – 50
- Polarity reverse – yes
- Incoming call restriction – no
- Line impedance – 600 Ω

6.Technical support

If you encounter problems while using the device and you are not able to solve them please follow these direction:

- Please check once again the SIM card, antenna and power supply to be connected as in it describe in User manual.
- Please check the PIN code of SIM card. It must be disabled
- Set device back to default factory settings if you have problems with some of the functions.
- Download and update newer firmware and configuration file from manufacturer's website at www.elexim.com/downloadbg.php
- If you have troubles with drivers download them from www.elexim.com/downloadbg.php

If you have troubles that you can't solve alone please contact us at tel. +35929718880 or write an e-mail to us at support@elexim.com.
We always will assist you to resolve problems associated with our devices.