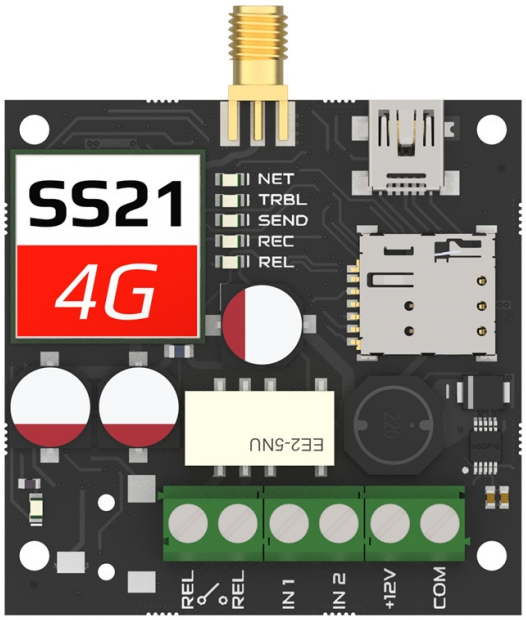
SS21-4G

Multifunctional signalling and controller device operating on 4G (VoLTE) mobile networks

OPERATION

The module sends an alarm call and/or SMS to up to 4 phone numbers when the input contact is triggered. The relay output can be controlled from up to 8 phone numbers with caller ID.

To monitor continuous operation, a life signal can be set up, and balance information received on the SIM card is automatically forwarded.



FEATURES

- 2 contact inputs with independent signalling
- 1 relay output, NO contact
- Notification up to 4 phone numbers Call and SMS
- USB connection to PC: USB 2.0 mini-B
- Communication: 4G (Cat-1) / LTE bands: B1,B3,B5,B7,B8,B20
- SIM card: Nano-SIM (4FF)
- Power supply: 10-30V DC / maximum 300mA
- Operating temperature: -25 ° C / + 50 ° C
- Dimensions: 52x52x15mm

APPLICATION

- Alarm communicator
- Gate control free of charge, with caller ID

PACKAGE CONTENTS

- SS21-4G device
- 4G antenna
- USB 2.0 mini-B cable
- Plastic spacers

SETUP

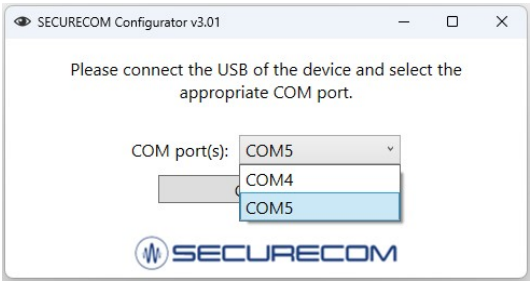
The module is configured using a PC program via the USB connection. (using the supplied USB cable)
The **SecurecomConfigurator** application can be used to configure the device. It can be downloaded from the following location:
https://puloware.com/public/SecurecomConfiguratorSetup.exe

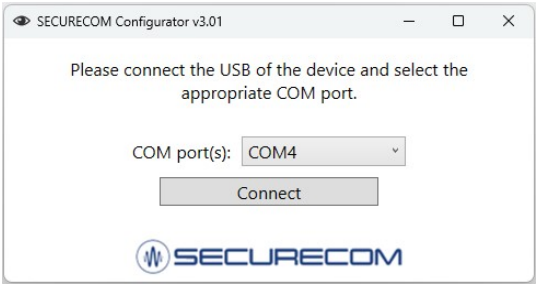
After installation and running the program, connect the module to the PC via USB and select the COM port activated by the device.

Configuring settings using PC software

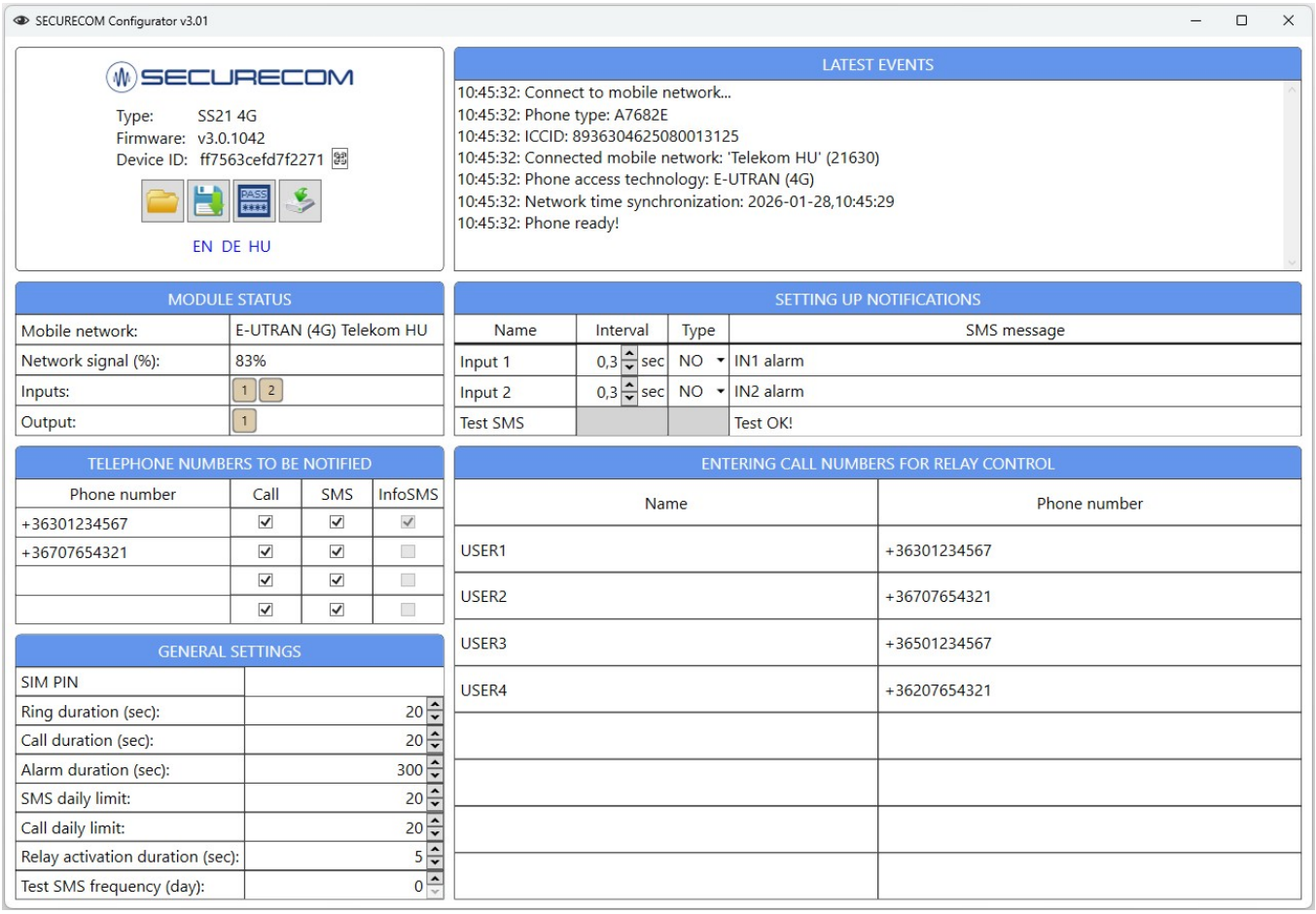
After starting the **SecurecomConfigurator** application (compatible with Windows 8, 10, 11) and connecting the device, you can configure the settings as follows.
Please note: the USB connection only provides sufficient power for configuring the settings, so an external power supply must be connected to test calls!

Selecting the communication port and connecting





After connecting, the parameters are configured on the following interface.



After starting, the program reads and displays the current settings of the device.
However, to apply the changes, you must press the upload button, because saving is not automatic!

Administration window

Open settings from your PC

Save settings to a file on your PC

Download settings to the module

Attention:
In order for the changes to the settings to take effect on the unit, the change must always be downloaded to the module!
If there is a change in the settings, the background of the reload icon will turn red, indicating the need to download.

GENERAL SETTINGS window

GENERAL SETTINGS	
SIM PIN	
Ring duration (sec):	20
Call duration (sec):	20
Alarm duration (sec):	300
SMS daily limit:	20
Call daily limit:	20
Relay activation duration (sec):	5
Test SMS frequency (day):	0

- SIM card PIN code, if necessary
- Ringing time of the called phone
- Length of the alarm call
- Time spent attempting to notify the alarm event
- Daily maximum number of SMS messages (to avoid overuse)
- Daily maximum number of alarm calls (to avoid overuse)
- The output relay control is monostable, so this is the switch ON time
- Test message confirming that the system and SIM card are operational.
- The SMS message is sent every morning at 9:00 a.m. current day.

SETTING UP NOTIFICATIONS window

SETTING UP NOTIFICATIONS			
Name	Interval	Type	SMS message
Input 1	0,3 sec	NO	IN1 alarm
Input 2	0,3 sec	NO	IN2 alarm
Test SMS			Test OK!

Input 1 and 2:
Interval: time duration during which the state change must persist in order to generate an event
Type: input control activation by closing NO or opening NC contacts
SMS message: text of the message sent, generated by the input change

Test SMS: the text of the message sent with the test report

TELEPHONE NUMBERS TO BE NOTIFED window

TELEPHONE NUMBERS TO BE NOTIFIED			
Phone number	Call	SMS	InfoSMS
+36301234567	☑	☑	☑
+36707654321	☑	☑	☐
	☑	☑	☐
	☑	☑	☐

Phone number: the module sends a notification (call / SMS) to the phone numbers provided here when the event occurs
Call: if it is checked and the event occurs, call the number provided
SMS: If it is checked and the event occurs, it will send an SMS to the specified number

InfoSMS: Two types of informational SMS messages can be sent to the first registered phone number.
- Forwarding SIM card balance notification messages
- Test report message

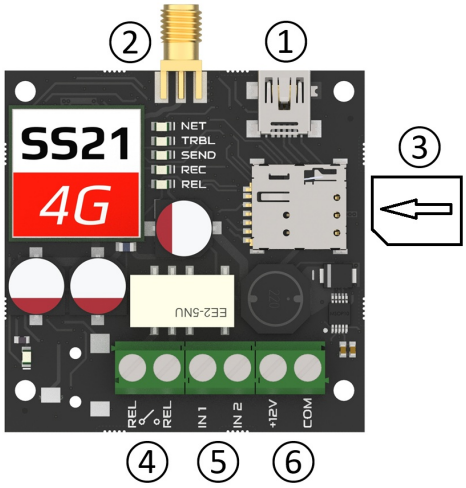
ENTERING CALL NUMBERS FOR RELAY CONTROL window

The RELAY output of the SS21-4G module can be controlled by free calls (with caller ID recognition) for up to 8 configurable users.

ENTERING CALL NUMBERS FOR RELAY CONTROL	
Name	Phone number
USER1	+36301234567
USER2	+36707654321
USER3	+36501234567
USER4	+36207654321

During a call from the set numbers, it rejects the call and activates the relay output for the set time.

SS21-4G connectors and LED indicators



① **USB port**
② **4G antenna connector**
③ **SIM holder**
④ **Relay output**
⑤ **Contact inputs**
⑥ **Power supply input**

LED signals

	Continuously
NET (green)	Network connected
TRBL (red)	Start or trouble
REC (green)	Incoming call
REL (yellow)	RELAY active

Get started

- Insert the SIM card: with the contacts facing down and the cut corner facing the SIM holder, as shown in the illustration
- Connect the antenna and terminal blocks as shown in the illustration
- Switch on the power supply
- Establish a PC connection via USB for configuration, then run SecurecomConfigurator
- Set the SIM PIN code for the 4G network connection, but if the card does not have a PIN code, this is not necessary
- Configure settings in the PC program
- Upload settings to the module using the upload icon, which is marked in red when needed!
- Test the operation of the configured functions using the **MODUL STATUS** and **LATEST EVENTS** windows
- If the test is successful, the module can be installed

Installation and setup tips

- The USB connection only provides sufficient power for configuration, so an external power supply may be required for test!

- When launched, SecurecomConfigurator.exe reads and displays the module settings.
  If the settings are changed, the changes must always be downloaded to the module!

- SMS messages sent to the SIM card (e.g., balance info) will only be forwarded to the first phone number.