SecureCom GPRS alarm monitoring communicator

USB connection
to connect to PC USB port and then the setting PC program of the communicator storage can be started

Antenna connector
GSM 900/1800MHz antenna with SMA connector

LED indicators

SIM holder

Simulated PSTN landline output (T/R)

Contact inputs to be for COM, negative voltage

Power supply input
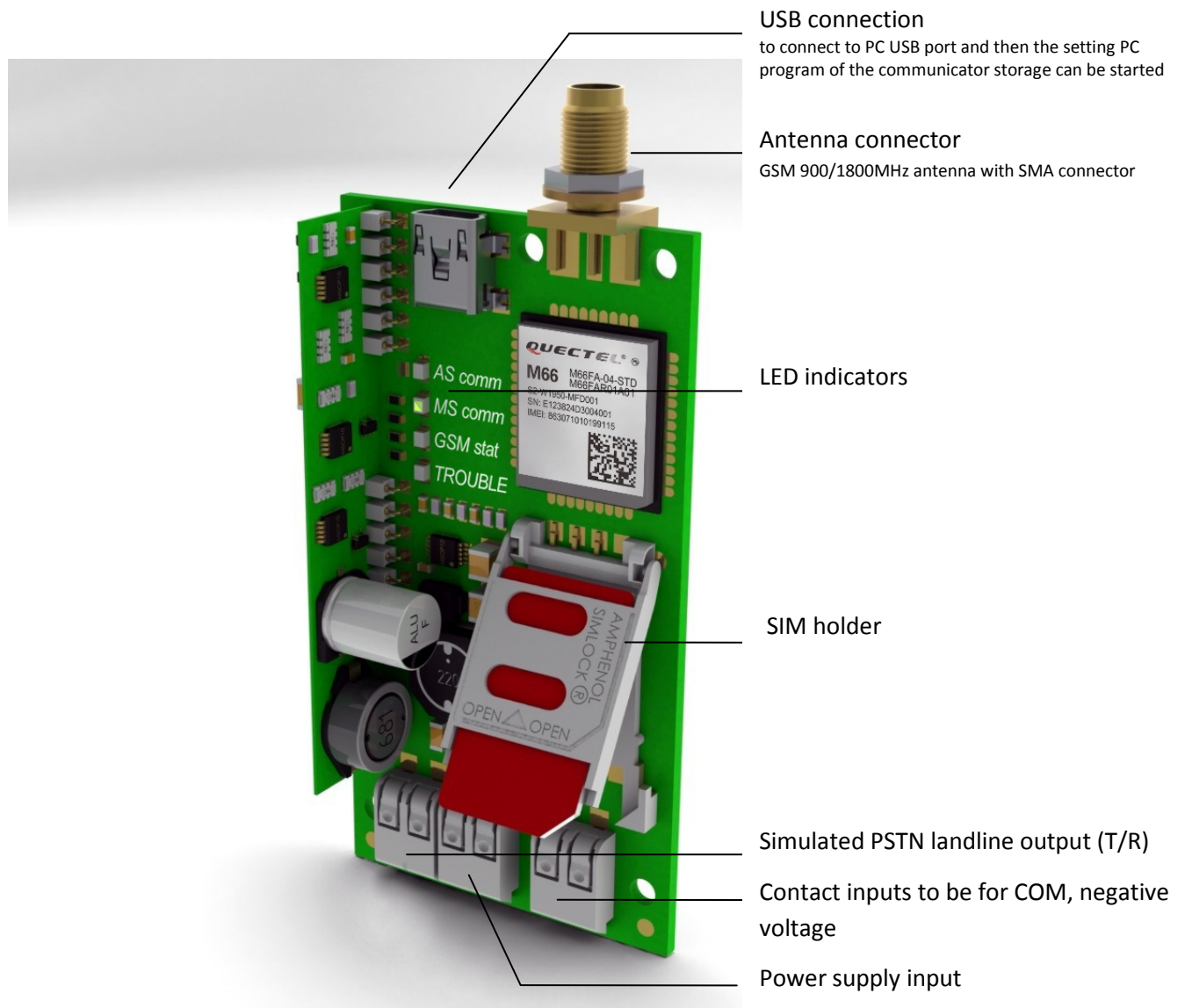
Installation

USB power is not sufficient for the operation, however, the voltage outputs (AUX) of alarm control panels are generally compliant.

- The TIP/RING communication line of the alarm control panel needs to be connected to the TIP/RING input of the communicator.
- Place the SIM card into the SIM card slot of the device.
- Connect the antenna.
- Power up the device.

Connect the USB cable, run the software and configure the communicator.

Functional description

The communicator is a device for using in alarm systems for the purpose of reporting via the GPRS networks, comply with the standard ANSI/SIA DC-09.
The CONTACT ID event codes received in the telephone format can be converted to the transmittable format, like the TCP/IP or UDP packages.

Operation

The communicator (stands as a simulated telephone line for the intruder alarm system) receives Contact ID event codes from the intruder alarm system and transmits it via GPRS network to the monitoring station and directs the coming back acknowledgments to the alarm system. Parallel with this function it is also able to transmit the contact events on its inputs to the monitoring station.

Main features

- Simulation of telephone line for intruder alarm system

- 2 contact inputs with independent signaling

- Capability of 2 independent monitoring receivers

- UDP or TCP/IP protocol transmission

- Configuration via USB using the PC software
  found in the communicator storage

Technical specification

•	Power supply	5-32V (DC)
•	Consumption	300mA (max.) / 100mA (in idle state)
•	Generated phone line values	
	Line voltage	48V
	Loop current	25mA
	Load impedance	100-470 Ohm
	Dial tone	425Hz
•	Operating temperature	0…+70°C
•	Dimensions	40x75mm
•	GPRS mode	Quad Band (Class 12)

Configuration

The communicator parameters can be configured by using the PC software available on the internal storage of the device. You can run the program directly from the unit's drive after connecting to USB.

1.	**Modem and GPRS**		Settings of network connection
	a.	**PIN code**	Enter the PIN code
	b.	**GPRS APN**	Access Point Name provided by GSM operator
	c.	**User**	User name provided by GSM operator
	d.	**Password**	Password provided by GSM operator

2.	**INPUT1, INPUT2**		Independent signalling contact inputs
	a.	**Sensitivity**	Minimum length of time of physical contact
	b.	**Contact type**	NC type input must be disconnected from the ground
			NO type input must be shorted to ground
	c.	**Event code**	Optional CID event code
	d.	**Reporting**	Destination monitoring receivers in possible logical order (only MS1, MS1 and MS2, MS1 or MS2, only MS2)

3.	**Monitoring station 1 és 2**		
	a.	**IP address**	IP address of monitoring receiver
	b.	**Port**	Dedicated port number for monitoring receiver
	c.	**Protocol**	UDP or TCP/IP
	d.	**SIA prefix**	Need if the alarm system obejct identifier is 4 character
	e.	**Object identifier**	Alarm system original obejct identifier
	f.	**Replace obtained identifier**	When receiving the CID format from the alarm system and before sending it to the monitoring receiver, is to replace the identifier in event code
	g.	**Dialed number by alarm system**	If the dialed number is same, or is not filled, the communicator sending the events to the monitoring receiver, otherwise don't.
	h.	**Link test period**	Periodic test data report to the monitoring receiver

LED indicators

The following LED indicators show the functional status of the communicator.
In case of error RED TROUBLE LED is continously ON, while GREEN LED is flashing according to the code of the error reason.

NORMAL OPERATION

◼ AS comm	◼ AS comm	◼ AS comm
◼ MS comm	◼ MS comm	◼ MS comm
◼ GSM stat	◼ GSM stat	◼ GSM stat
◼ TROUBLE	◼ TROUBLE	◼ TROUBLE
Idle state	Reporting to monitoring receiver	Alarm system in communication

GSM NETWORK FAILURE

◼ AS comm	◼ AS comm	◼ AS comm
◼ MS comm	◼ MS comm	◼ MS comm
☀ GSM stat 3 flashing	☀ GSM stat 2 flashing	☀ GSM stat 1 flashing
◼ TROUBLE	◼ TROUBLE	◼ TROUBLE
SIM card missing or wrong	PIN missing or wrong	Poor GSM signal strength

GPRS network failure

◼ AS comm	◼ AS comm	◼ AS comm	◼ AS comm
☀ MS comm 4 fl.	☀ MS comm 3 fl.	☀ MS comm 2 fl.	☀ MS comm 1 fl.
◼ GSM stat	◼ GSM stat	◼ GSM stat	◼ GSM stat
◼ TROUBLE	◼ TROUBLE	◼ TROUBLE	◼ TROUBLE
APN missing	Wrong APN or GPRS network fault	Missing IP / Port or object ID	Wrong IP address