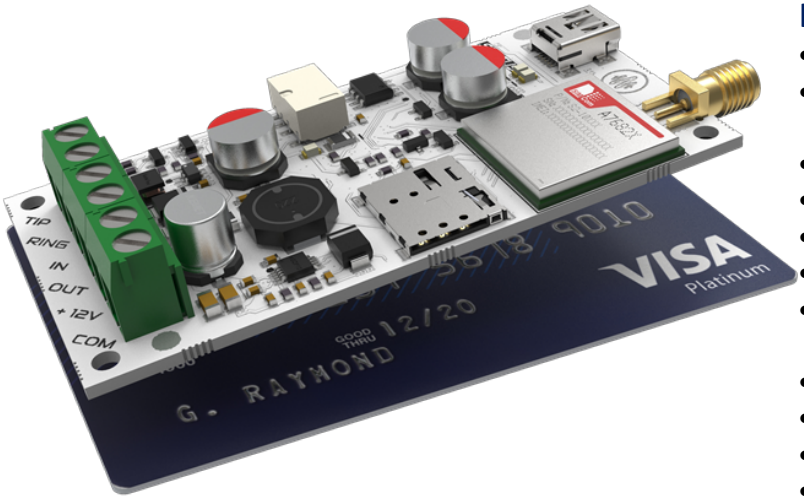
SuperLink 4G

Alarm monitoring communicator with full remote management and mobile App service



KEY FEATURES

- 4G (LTE Cat1) network connection with 2G fallback
- Phone line emulation for alarm panels [TIP/RING] Contact ID translation to SIA DC-09 IP format
- 1 contact input, with independent signal
- 1 relay for control from the mobile App
- Configuration with PC software via USB
- Possibility of changing the object ID in the CID code
- Handling 2 independent alarm monitoring receivers, managing IP address or domain name
- AES128, AES256 encryption option
- Complete remote management via WEB browser
- Use with mobile App
- Compact size, easy to install

OPERATION

It converts the Contact ID report codes of alarm centers to SIA IP format and then transmits them to remote monitoring via the 4G network. The acknowledge of successful transmission is only sent back to the alarm panel if the report code has actually reached the remote monitoring dispatcher's computer and the communicator has been notified of this.
When an input contact is activated, it sends a signal to the monitoring receiver with the set event code. The relay output controlled by a mobile application can arm or disarm the alarm.

APPLICATION AREAS

- Connecting new and existing alarms to 4G networks
- Alarm communicator for remote monitoring receiver
- End-user notification via mobile App (optional)

PACKAGE CONTENTS

- SuperLink 4G communicator
- 4G antenna
- Plastic peg spacers
- Warranty

COMMUNICATION PROTOCOLS

- SIA DC-09 (SIA IP)
- MQTT

REQUIRED SETTINGS OF ALARM PANEL

Connected alarm panel must have following settings:

- Enable the phone line communication
- DTMF (Tone) dialling should be selected
- Any phone number with at least 4 digits for dialling
- Contact ID (Full) format
- Specifying Object IDs for reports
- When using the mobile app, set the momentary key switch (for opening/closing) to a dedicated zone.

The module then receives signals from the alarm center in the same way as a telephone line remote monitoring receiver and forwards them to IP-based receivers.

CONNECTING TO THE ALARM PANEL

POWER SUPPLY: The device's **+12 V / COM** input must be connected to the alarm panel's AUX output with the correct polarity (polarity protection). The operating voltage range is **9–30 VDC**, and the required operating current consumption is a maximum of **300 mA**.
COMMUNICATION: the **TIP/RING** output of the device must also be connected to the TIP/RING input of the alarm control panel, with any polarity.
INPUT SIGNALLING: The **IN** input of the device can be connected directly to the PGM output of the alarm.
RELAY CONTROL: The OUT output of the device can be directly connected to any zone input of the alarm. In this case, the zone must be defined as momentary key switch mode in the alarm settings. During control, the relay switches a 1-second closing pulse (NO->NC->NO). The pulse length can be adjusted in the settings.

SETTING UP A NETWORK CONNECTION

The unit communicates with monitoring receivers via a 4G (LTE) Internet connection. The following additional components are required for a proper connection.

ANTENNA: The package includes an antenna compatible with 4G network bands. After screwing the end of the cable onto the SMA antenna connector, the correct position is vertically on top of the alarm box, with the magnetic part facing downwards.

SIM: The nano SIM card capable of mobile data transfer must be inserted into the connector slot on the side of the device. The card contacts should face downwards towards the panel, and the polarity markings on the card should face the SIM holder in the direction of pressure.

The SIM card **PIN code** (if required) and the APN settings necessary for establishing an Internet connection can be configured using the SecurecomConfigurator PC program. The program can be downloaded at the following address: www.securecom.eu

Attention: In order for the changes to the settings to take effect on the unit, the change must always be downloaded to the device!

STATUS SIGNALS

The LED status indicator displays the following information about the communicator's operation.

Continuous RED	APN setting or SIM card missing
Blinking RED	Connection in progress or other malfunction (beyond 60 seconds)
Blinking GREEN	Normal operation, idle mode
Continuous GREEN	Alarm signal in progress

Further details regarding the module's operation and communication with the alarm system can be found in the configurator program.

COMMUNICATOR'S OWN EVENTS

- The unit monitors its own supply voltage and generates an event if it drops below 11V. Event restore occurs above 12V.
- Changing the settings also generates an event.
- Generates an event due to a contact change (short circuit or interruption) on the **IN** input.

The object ID in device's own events will be the value entered in the "**Object identifier**" field, while the partition value and zone number can be set.

The „**Sensitivity**" setting means that the event generating the signal (short circuit or break) must persist for at least as long as the time set there.

All three event codes can be modified individually.

TECHNICAL DATA

- Supply voltage: **9-30 VDC**
- Maximum current: **300 mA**
- Network connection: **4G LTE B1/B3/B5/B7/B8/B20**
- Phone line emulation: **24 V / 25 mA / Z= 200-600 Ohm**
- Operating temperature: **-20°C / +70°C**
- Dimensions: **40 x 80 x 15 mm**
- Weight: **30 grams**

SETTING UP CONNECTION TO IP RECEIVERS

The communicator can maintain contact with up to two IP receivers. MS1 is the primary destination. All reports are automatically sent there until successful acknowledgment is received. If MS1 fails to acknowledge, the system automatically switches to the secondary destination, MS2. The system simultaneously attempts to restore communication with MS1 via periodic test reports once a test report is successfully acknowledged by MS1, the transmission reverts to the primary destination.

The following settings are required for a proper connection.

IP Address: IP address or Domain of the monitoring station

Port: the IP address of the receiver in the MS local network

Protocol: TCP or UDP according to customer requirements

Object identifier: for sending its own signals

Replace obtained identifier: (optional) replaces the Contact ID in the alarm reports with the set ID

Link test period: frequency of sending test reports

Link test code: (any code) base case null test

REMOTE MANAGEMENT

The SuperLink 4G device can be configured remotely in the same way as with the local PC program. The feature is available via a cloud-based server at www.puloware.com

Registration is required to use the website. After logging in following registration, the communicator device ID must be added to the list in the account so that the device appears on the web interface!

The remote management background provides full diagnostic capabilities for 4G network connectivity in terms of alarm communication and remote monitoring communication.

Comfort settings and user permissions can be configured for the mobile app. If necessary, the internal firmware of the transmitter can be replaced at the touch of a button.

MOBILE APPLICATION

SuperLink 4G can control any alarm system from a mobile App (arm/disarm), display the alarm status, and forward alarms to smart phone users. The alarm event codes are sent to users' phones in the form of Push Notifications. The messages are immediately sent to all users connected to the device, generating a continuous siren sound on the phone in the event of an alarm. The messages can of course be customized for each event according to the end user's needs.

The **PULOWARE CONTROL** App is available on all platforms and can be downloaded free of charge. The functions of the mobile application may be restricted and linked to permissions by the operator of the signal device. Notifications, alerts, and event list display can be disabled, but control can also be restricted, and users can even be blocked or deleted. If requested by the customer, it can also be used for central messaging to display advertisements or operational information.

The details of the application can be configured at www.puloware.com