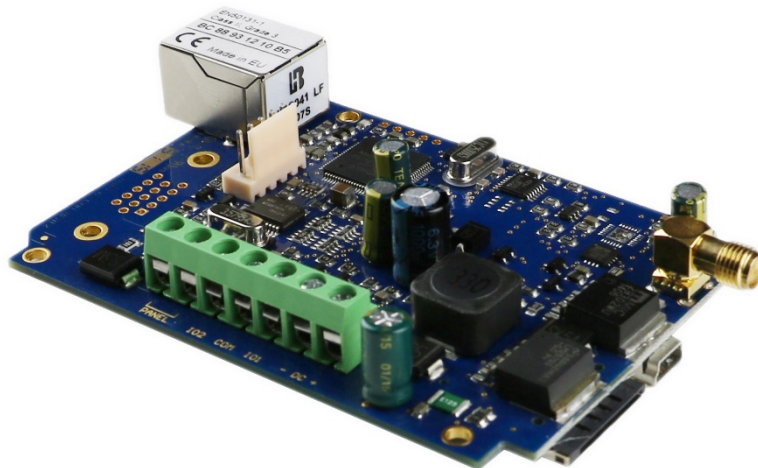




IPCOM 4G Cloud

2G/3G/4G GPRS/IP COMMUNICATOR



INSTALLER AND USER'S GUIDE

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Introduction

The IPCOM 4G Mobile Communicator is recommended for security installations, where the reporting to Alarm Monitoring Service providers (AMS) has to be made over Ethernet and/or mobile networks. The main reporting channel is the Ethernet network, and the GPRS or the HSPA/UMTS mobile internet network, as a backup, GSM call can be used, if available.

The device is equipped with two I/O ports (the type of the ports can be NO/NC). The outputs of the module can be controlled via SMS and phone call as monostable. In addition, the control with phone call is possible only with phone caller identification, therefore, 8 phone numbers can be set to manage the outputs.

The ports can be used also as contact driven inputs. In case of arriving signal to any of the 2 inputs, the module can send an email to one particular email address, or an SMS to one phone number, moreover, the module is capable to send a message to the monitoring station as well. Also, we can link zones to the inputs. The IPCOM-G is able to translate the contact ID codes, which were sent by the alarm panel, to SMSs. Also we can give unique names up to 16 zones.

The module can be programmed by PC via USB directly, or via IP network.

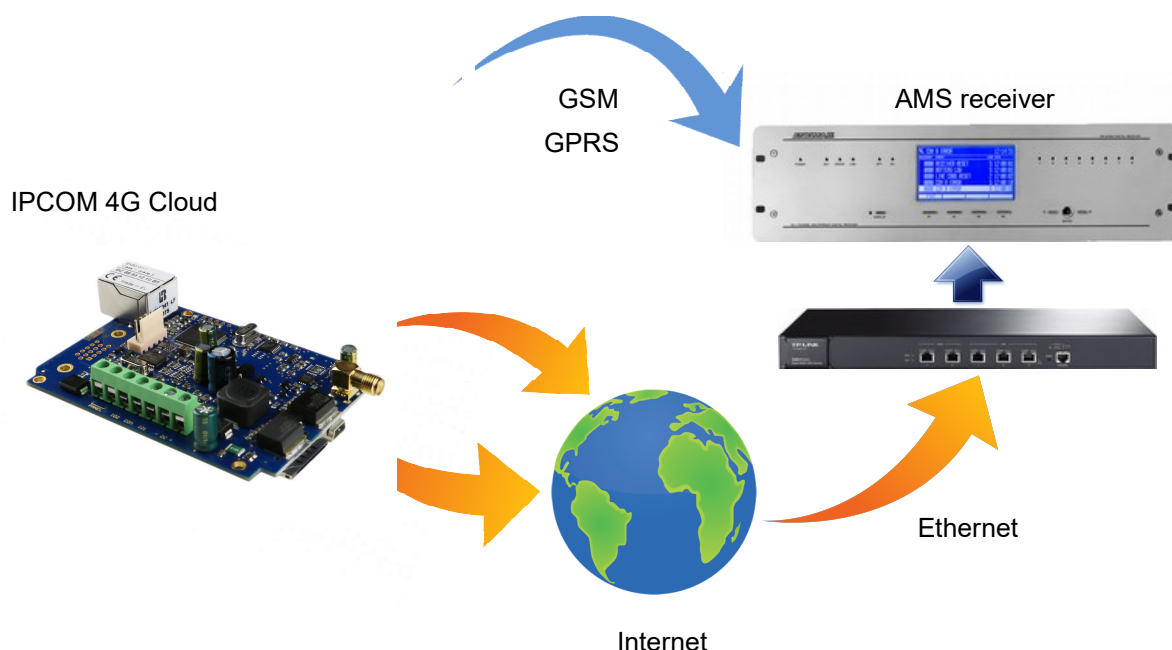
For all ways, a primary and a secondary channel can be given. The secondary channel can be used as a backup, or for parallel reporting (double reporting).

To be able to use and understand all the features of the IPCOM 4G series communicators, please, read this *Installer Manual* carefully.

SAFETY NOTICE! Please, take care of installing and using this product according to the instructions and procedures detailed in this manual to ensure proper product safety.

System overview

The IPCOM 4G communicator receives the messages from the telco interface of the security control panel, in Contact ID format, and forwards these through the wired or mobile internet network or cellular network to the Alarm Monitoring Service central.



Module buildup

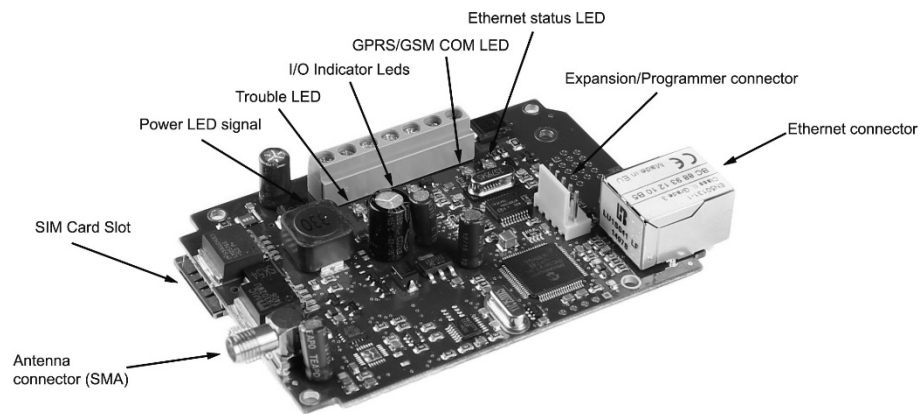


Figure 1: the buildup of the module

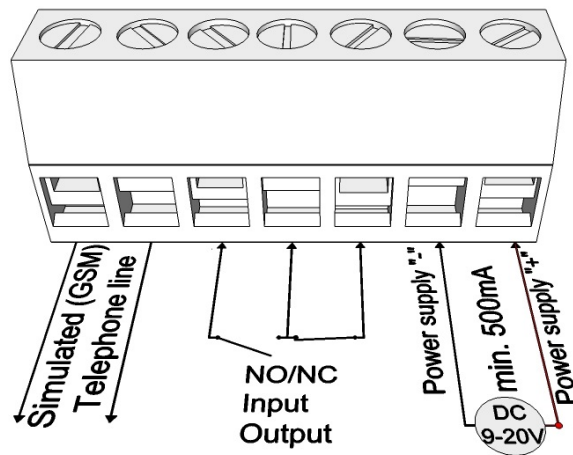


Figure 2: Series diagram wiring terminal

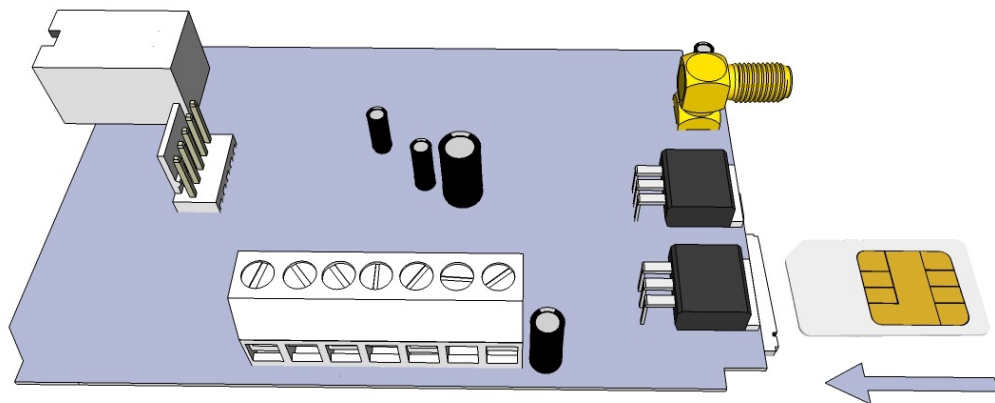


Figure 3: SIM card inserting

Installation steps

1. Carry out a signal strength check with your mobile phone. Sometimes occurs there is no sufficient signal strength at the commissioning site. In this case it is recommended to change the module position prior of installation.

Do not install the device to places where strong electromagnetic waves might occur, ex. next to electric motors or alarm transformers.

Do not install in watery places or to places with great humidity.

2. Connect the antenna that can be secured with the SMA connector. If you are reading low signal strength use antenna with higher gain. Signal strength grow can also be achieved by repositioning the antenna.

Do not position the antenna under metal cover of various appliances as those might significantly ruin the signal strength.

3. **You should opt out the voicemail and call notification functions of the SIM card.** If the protection of the SIM card is not required otherwise, it is recommended to switch the PIN code request of the SIM card off.

Sometimes new SIM cards must be activated (usually an outgoing call has to be made).

Check the validity of the card. If you have a prepaid card check its balance and its usage possibilities (ex. it can be used only for calls)

4. It is practical to check the satisfying operation of a SIM card in a cell phone prior of insertion into a module. Number identifying of caller and at call initiations has to be checked. This function at certain service providers must be enabled formerly.
5. The average mobile data usage of the IPCOM 4G communicator is estimated at 5-6 MB/month. This value can depend on the frequency of the test (keep-alive) signals. Please, use a SIM card with at least 5-10MB/month data plan. If you are not qualified ask for professional help.
6. Insert the SIM card in the SIM card slot of the module.
7. Connectors have to be connected according to the wiring diagram. If you are dealing with OC output mind the correct wiring of the relay protecting diode.
8. Check if the power supply performance will be sufficient for the module. Mind the polarity. If wiring is reversed the module will not operate or might get damaged.
9. Now the device can be powered.

Module can acquire the power needed for programming also from the USB adapter.

When using Ethernet (IP) reporting, the internet connection is provided for the communicator by the local router. To ensure problem-free reporting, it is recommended to provide uninterrupted power supply for the router.

In all operating modes, the number of reporting trials on GPRS and GSM channels is limited, to keep data traffic at a reasonable rate. After 4 unsuccessful communication trials the reporting will be suspended on the given channel until another event is to be reported, or the next channel test is due.

Reporting trials on the ethernet (IP) channels is not limited in any ways to ensure, that the communication restores in shortest possible time, after the cause of the problem has been eliminated. If there is a failure in the operation of the communicator, the „Debug“ mode can be used to identify the cause of the problems. More information at „Troubleshooting“.

LED Indicators

Signals give essential information of the module, of GSM signal strength and the actual error codes. By blinking we mean flashes between two longer pause.

- **LED-1 Power/Signal LED:** In case of proper power supply, the LED-1 lights continuously, and indicates mobile network signal strength by slow flashes in every 10 seconds:

Flashes	Meaning
0-1	No / weak signal level
2-3	Medium / good signal level
Fast flash	Power supply falls – under 10 V DC
Slowly flashes	During programming

- **LED-2 Trouble LED:** Provides general fault signal

Flashes	Meaning
<i>No light</i>	No trouble condition, proper operation
<i>Continuous light</i>	The configured reporting channel has physical problem (e.g. no SIM card)
<i>Flash</i>	Unsuccessful reporting attempt on one or all reporting channel

- If LED-1 and LED-2 flash promptly alternating, it indicates that there is no reporting channel has been properly programmed. During firmware upgrade of the unit the two LEDs flash alternating slowly.
- LED-3 and LED-4 show the status of the I/O 1 and 2 of the communicator according to the selected operating mode (input or output).

Flashes	Meaning
<i>Light</i>	Input or output active
<i>No light</i>	Input or output inactive

- LED-5 Indicates the status of the GPRS / GSM connection

Flashes	Meaning
<i>Light</i>	GPRS / GSM connection is OK
<i>No light</i>	Initiating GPRS/GSM connection, or no SIM card, or no GPRS / GSM channel is programmed.
<i>Flash</i>	Some or all GPRS / GSM channels have failed to report properly to the AMS central.

- The LED-6 Indicates the status of the Ethernet connection

Flashes	Meaning
<i>Continuous light</i>	Ethernet connection is OK
<i>No light</i>	No Ethernet cable connected, or the connected router does not support 10-Base T connection link.
<i>Flash</i>	Some or all IP channels have failed to report properly to the AMS central, or device is not properly configured on the local network (Router or DHCP failure)

- If the Ethernet cable is connected to the module, and it could be properly configured on the local network, LED-6 will light even if there are no IP reporting channels are configured. In this case, the device will still be accessible on the local network for remote programming.

General recommendations

The IPCOM-G communicators can report to AMS servers via the Ethernet and/or GPRS/GSM network. A primary and secondary reporting channel for all communication media. Furthermore, email and SMS sending is available for notification purposes.

The priority of the communication channels corresponds to their number – so reporting on the lower number channel is in priority over reporting on higher numbered channels. The communication channels are as follows:

Channel	Channel type
<i>CH1 and CH2</i>	Ethernet (IP) channels
<i>CH3 and CH4</i>	GPRS channels
<i>CH4 and CH5</i>	GSM channels
<i>CH7</i>	E-mail notification
<i>CH8</i>	SMS notification

Programming

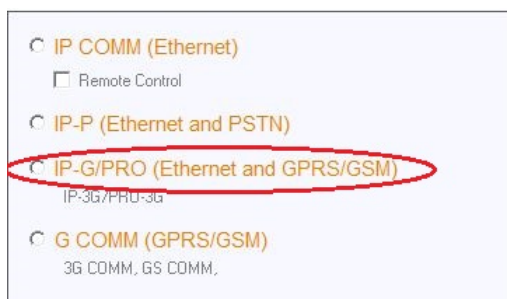
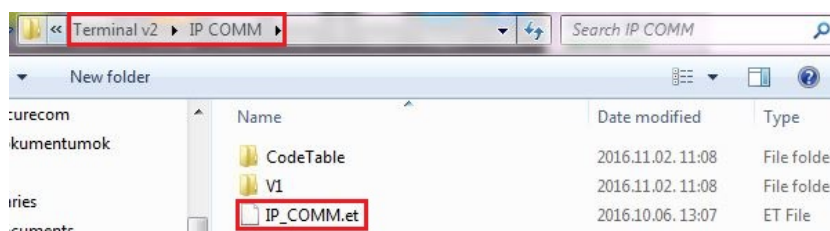
Programming with PC

The IPCOM-G communicators can be programmed via the USB connector (virtual serial port). For programming, please, use the *Terminal* software. The IPCOM-G communicators are supported from *Terminal* version 2.35. It is always recommended to check the latest available software version before programming. The latest version of the *Terminal* software can be downloaded from the following link:

<http://download.ascglobal.eu/download/software/terminal.exe>

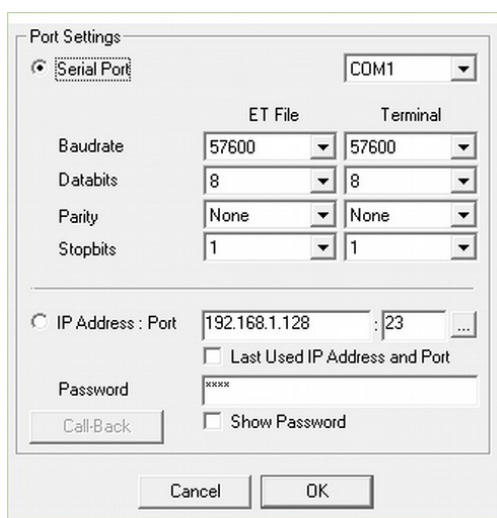
The programming steps are as follow:

1. Connect the IPCOM 4G communicator to the PC with a mini-USB cable.
2. Start the *Terminal*, then in the file menu with the „open“ button search and chose the IPCOMM.et device file.

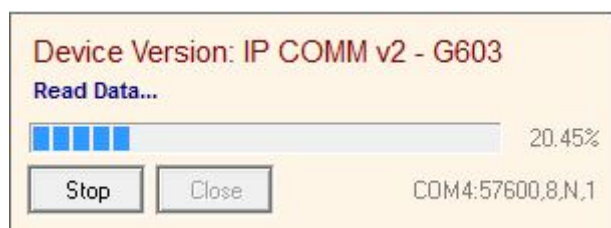


3. After that, select the product type: IP-3G/PRO-3G

4. Set the COM port for programming in the *Communication / Port Settings* menu. The password for programming is „1234“ by default.



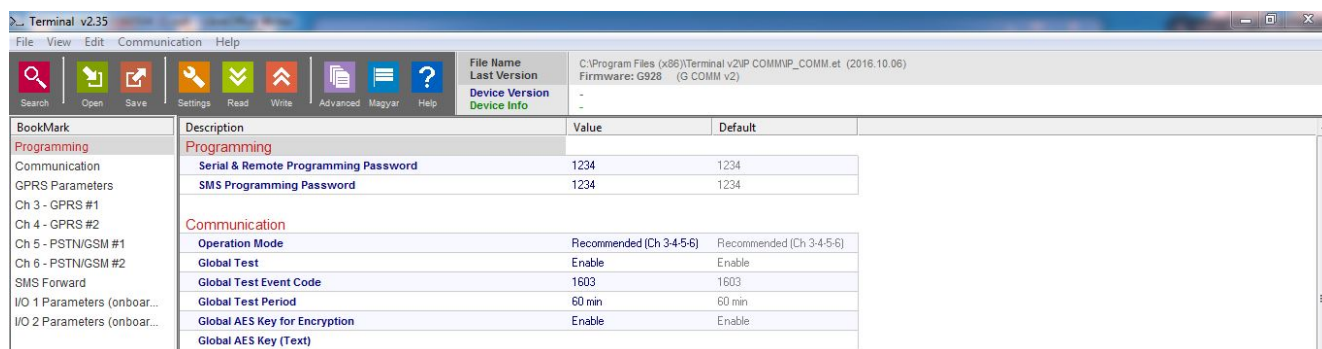
5. Read out the current settings from the device, by clicking on *Communication / Read* button.



The firmware version of the device can be interpreted as follows:

- G – 16 (year – 2016, alphanumeric)
- 6 – 6 (month – June, hexadecimal)
- 03 – 3 (day – the third)

6. Set the parameters in *Terminal*, as needed. In case you have used IPCOM 4G communicator before, then you might realize, that the options are similar, but only channels 3,4,5, and 6 can be accessed.

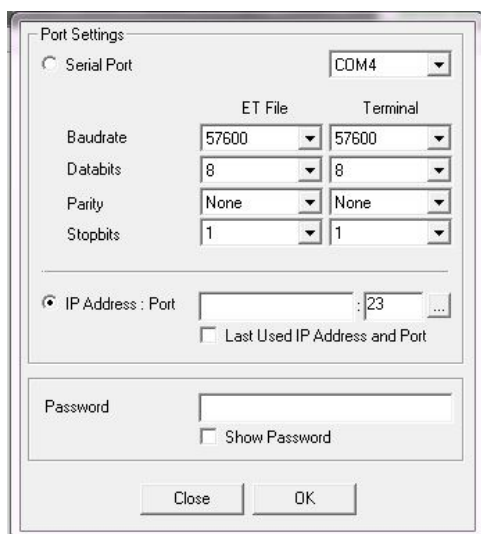


7. When all the required options and parameters have been set, these can be downloaded to the device by clicking on *Communication / Write*.

8. The commonly used settings may be worth to save on the PC as a template for programming communicators. This can be done at *File / Save* menu. The previously saved settings can be reloaded later by using *File / Open* menu.

The short description of the options, that can be set in *Terminal*, can be found by right-clicking on them in the UI.

Remote programming



The device allows programming via LAN. To be able to connect to the communicator via IP, we have to give the IP address and port of the module, which has to be a fix IP address, or DHCP in case we would like to connect to the module within VPN network. In addition, a security code is necessary for the connection too.

After that we have to click on the *OK* button and then read out the data from the module with the *Read* button instead of the *Search* button

Communication

In the communication settings the different settings can be configured includes as operation modes, global test, AES encryption, automatic reset and time zone.

The operating mode of the communicator determines, how the available communication channels will be actually used for event reporting, so which channels are used as primary and for backup. The available options are as follows:

1-2-3-4-5-6 mode (default)

In this mode, the communicator sends the event to the first available server, according to the priority of the available channels. Upon success, no further reports will be made.

1-2; 3-4; 5-6 mode

Using this mode, the events will be reported on available IP, GPRS and GSM channels as well, even if reporting to any of these has been successful. E.g. it will report the event over GPRS even if it has already been reported over IP.

1-2-3-4 Pass-Through mode

This mode is very similar to the first one, but with an important difference. In this mode, the event received over telco interface will be acknowledged to the control panel after the event has been successfully reported to and acknowledged by the server. This method is slower, but provides in most cases more reliable reporting. The GSM channels (CH5 and CH6) cannot be used in this mode.

1-3-5; 2-4-6 mode

This mode can be used, when the events has to be reported to two independent AMS. An IP, GPRS/HSPA+/LTE and GSM channel can be used for each AMS server.

AES Encryption

We can use 128 bit AES encryption for the message sending, which ensures higher security level.

Global AES Key for Encryption	Enable
Global AES Key (Text)	
Global AES Key (Hex)	000000000000000000000000...

Channel settings**Ethernet**

The device can send messages trough IP. Here we need to ensure an IP adress or domain of the receiver along with a port. Also we have to give an account number in addition to choosing the internet protocol (TCP/UDP) and the transmission protocol (SIA DC-09, E2, Normal contact ID).

Ch 1 - Ethernet (IP) #1

Receiver IP Address (Domain)	tellsystem.hopto.org
Receiver IP Port	5555
Account Code	5656
UDP or TCP Reporting	TCP
IP Report Protocol Format	SIA DC-09

GPRS

The device can send messages via GPRS. Here we need to ensure the IP adress or domain of the receiver along with a port. Also we have to give an account number, in addition to choosing the internet protocol (TCP/UDP) and the transmission protocol (SIA DC-09, E2, Normal contact ID).

Ch 3 - GPRS #1

Receiver IP Address (Domain)	tellsystem.hopto.org
Receiver IP Port	5555
Account Code	3333
UDP or TCP Reporting	TCP
IP Report Protocol Format	SIA DC-09

Email report

The module is capable to send messages via email about input changes, messages from the alarm panel to one particular email adress. Beside of giving our email adress, we have to determine an account code, which will be attached in the email report. Also an email subject is required to set. The email contains information regarding the event includes the event code (603), (060), and the zone number (001) in case of alarm. To send emails subscription is required at an email server provider.

Ch 7 - E-mail

E-mail	example@gmail.com
Account Code	8888
GPRS E-mail	Enable
E-mail Subject	Status Report

Lifetest SMS: E603-99 060 Test, Alarm SMS: E130-99 001 Burglary

SMS report

Ch 8 - SMS

Phone No.	36301234567
Account Code	9999

It is possible to send SMSs about the input changes, incoming messages from the alarm panel to one particular phone number.

The SMS message contains information

regarding the event includes the event code (603), the test period (060), and the zone number (001) in case of alarm.

Lifetest SMS: E603-99 060 Test,

Alarm SMS: E130-99 001 Burglary

SMS forwarding

We can assign one phone number to forward the incoming SMSs. The module redirects every SMS which is sent in a wrong way, or by the provider.

SMS Forward

SMS Forward	Enable
Phone No.	36301234567

GPRS settings

To be able to use the GPRS channel we need to provide the APN of the provider of the SIM card. The average mobile data usage of the IPCOM 4G communicator is estimated at 5-6 MB/month.

This value can depend on the frequency of the test (keep-alive) signals. Please, use a SIM card with at least 5-10MB/month data plan.

GPRS Parameters

APN	
User Name	
APN Password	
PIN	
GSM Signal Level Report	Enable
GSM Signal Level Event Code	1357

Event filter

The module has the possibility to set an event filter. In this way only those events will be sent which are enabled here.

Event Filter (Ch5 - Ch8)

Alarm (CID 100)	Send events
Supervisory (CID 200)	Send events
Trouble (CID 300)	Send events
Open/Close (CID 400)	Send events
Bypass (CID 500)	Send events
Test (CID 600)	Send events

I/O settings

Input settings

The IPCOM 4G has two I/O ports. In case we use it as an input, we can give the type of the input (NO/NC), the event code, and the restore code. Moreover, the input sensitivity can be modified between 10ms and 2550 ms. What is more, it allows us to link a zone number to the input along with changing the maximum number of event repeating.

I/O 1 Parameters (onboard)

I/O 1 Operation Mode	Input
Input 1 - Loop Type	NC
Input 1 - Event Code	1130
Input 1 - Restore Code (Optional)	
Input 1 - Restoral	Enable
Input 1 - Sensitivity	500 ms
Zone No.	0
Max. Event Repeat / Hour (0 - Disable)	0

Output settings

The module is equipped with an open-collector output, therefore, the output switch to the ground in case of control. The outputs can be managed by call or SMS. In addition,

I/O 1 Parameters (onboard)

I/O 1 Operation Mode	Output
Output 1 - Operation	Gate control (phone call)
Output 1 - Time	0 sec

automatic output control is possible as well includes power fail, channel fault, low signal level, general fault or sufficient power level. By default the type of the output is normally close. Also it is not changeable. The outputs are working in monostable mode, which control time can be from 1 second to 65535 seconds.

Control phone numbers

The outputs can be controlled from 8 phone numbers with caller identification. The outputs can be controller only with caller identification.

Individual zone names

In the Zone Names menu, we can name the zones individually. Hence, we can get SMS or Email notifications from the module with the unique zone names.

Remote Phones

Phone No. #1	36201234567
Phone No. #2	36301111112
Phone No. #3	
Phone No. #4	
Phone No. #5	
Phone No. #6	
Phone No. #7	
Phone No. #8	

Zone Names

General zone name	ROOM
General user name	
Zone #1	ROOM1
Zone #2	ROOM2
Zone #3	ROOM3
Zone #4	ROOM4

Connecting the module to the alarm panel

In the *Telco special parameters* we can set the details of the communication between the module and the alarm panel. We must set a number that the alarm center will dial. Recommended number: 99999999.

The IPCOM 4G communicators are connected in most cases to the telco interface (TIP and RING terminals) of the security control panel. When connected to the telco interface of a security control panel, the following might be considered:

Telephone communication should be enabled for the security control panel:

- DTMF (Tone) dialing must be set
- A telephone number must be set for reporting
- A user account must be set for reporting (do not use '0' digit, if possible Contact ID (all codes) format must be selected
- It might be necessary to turn off Telephone line monitoring (TLM) option
- It might be necessary to turn off dial tone detection
- For some control panels, the „Force Dialing” option must be set.

Telco Special Parameters

Communicator Phone Number	99999999
Receive All Calls	Enable
Dial Tone	Enable
Dial Timeout	500 ms
Time Between Handshakes	3 sec
Alarm Control Panel Trials	3
Handshake Method	Fix
1400 Hz Freq. Value	0
2300 Hz Freq. Value	0
Handshake Length	1000 ms
Dual Handshake Length	100 ms
Billing Delay	1 sec
DTMF Timeout	200 ms

The communicator receives the reports over its telco interface, and forwards the messages to the AMS central.

If the events cannot be reported on any of the programmed channels, the communicator will suspend receiving further events on the telco interface until the communication with the servers has been restored.

Testing AMS server connection

In case of eventual communication failures, when it is suspected, that the communicator cannot access the server of the AMS central, it can be useful to check server availability on the public internet network. For testing the software iptest.exe can be used

The iptest can be downloaded from the following link:

<http://download.ascglobal.eu/download/software/ipt.exe>

1. The IP address or domain name of the AMS server must be set

2. The ports for accessing the AMS server must be set as follows:

Receive port – for event reception, Telnet port – for remote programming, Web-server port – for browser-access

3. Clicking on Test button, the software checks the available ports, and indicates Pass or Fail status.

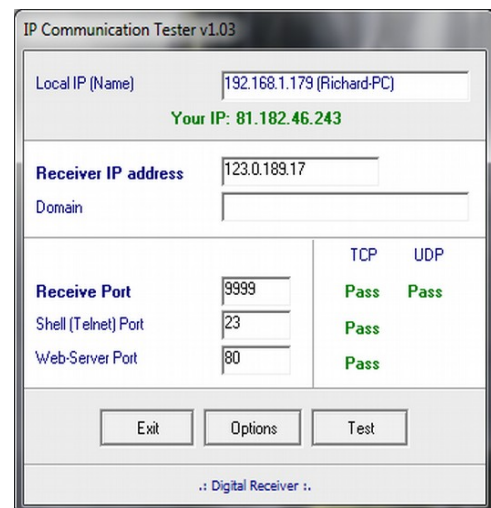
4. More settings can be done at the *Options* menu:

- *Enable TCP Test Report* = TCP connection testing

- *Enable UDP Test Report* = UDP connection testing

- *Invisible TCP/UDP Test* = The test event used for checking connection will not be displayed on the receiver

- *Enable AES Crypted Test Report / AES Key* = AES encryption testing



Firmware upgrade

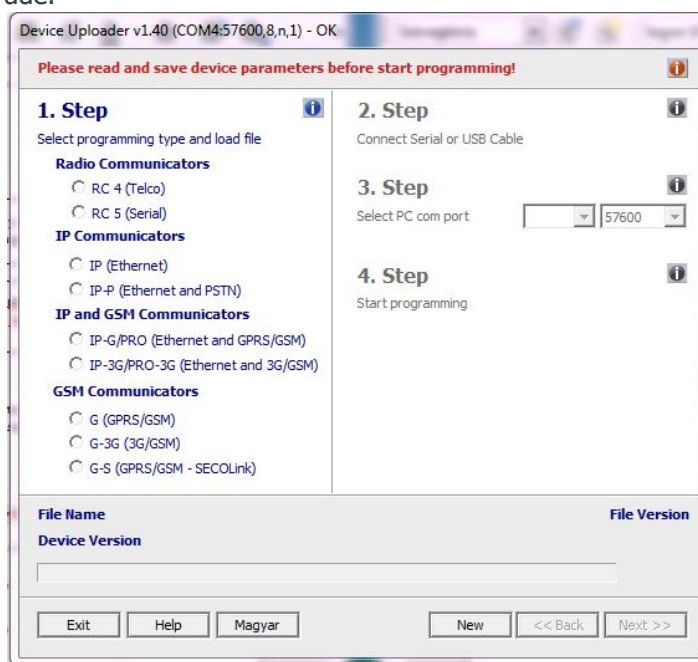
It is recommended to upgrade regularly latest device firmware to use new functions and eliminate possible bugs.

Firmware upgrade can be done by the Device Uploader, this is free you could download from the following link: <http://download.ascglobal.eu/download/software/duploader.exe>

The software always contains the latest firmwares.

The firmware upgrade steps are the following:

1. Please save the actual settings from the communicator with *Terminal* software before firmware upgrade (check *System programming with PC software* chapter).
2. Start *Device Uploader* program for firmware upgrade.
3. Choose your unit type (Step 1. - IP-3G), then press Next.
4. Choose the new firmware file for the upgrade (Step 2.), then press Next.
5. Choose the COM port, where the communicator is connected (Step 3.), then *Next*.
6. The upgrade process can be started by pressing the *Start* button. The program verifies the current firmware version, then waits for the user to confirm the upgrade:
7. Selecting „Yes” will start the upgrade. The whole process takes about 1 minute. If you select „No”, then no change in the firmware will be done.
8. As the upgrade is completed, load back the program data with the *Terminal* software. (see section 6. *Programming the communicator with PC*).



Troubleshooting

If there is any problem with the communicators it is always recommended to upgrade their firmware to the latest available version, as this could solve most of the problems.

SYMPTOM: No connection between the IPCOM 4G and the PC during programming

SOLUTION: Check the USB cable connection at the PC. Check the Device Manager in Windows, if the driver for the USB serial port is properly installed, and the virtual serial port (COM) appears in the device list. Check, if the Terminal software is set to the same COM port.

SYMPTOM: The Ethernet LED (LED-6) is flashing, no communication goes to AMS

SOLUTION: Check, if the IP channels are programmed properly. Check if the LAN parameters are programmed properly, and the device gets a valid IP address on the LAN. Check if router supports 10-Base T communications.

SYMPTOM: the settings of IPCOM 4G seem to be ok, but no communication goes through to the AMS central.

SOLUTION: Check the IP address and port settings for the AMS server. Check the APN settings. Turn off PIN request at the SIM card, using a mobile phone. Check if there is proper cellular signal level. Check, if the mobile internet service is available for the SIM card – use it with a mobile phone, and verify internet connection.

SYMPTOM: The control panel cannot send messages to the IPCOM 4G communicator.

SOLUTION: Check, if the control panel is programmed properly – reporting is enabled, set to tone dialing, a

proper account code and phone number is set, and Contact ID is selected as reporting format.

SYMPTOM: The control panel shows Comm Fault

SOLUTION: For some control panels it may required to disable TLM and/or dial tone detection. In some cases, the IPCOM-G communicator can provide the following error messages (examples):

1354 012 99 = Ethernet cable is not connected

1354 034 99 = SIM card not present

1354 999 99 = Comm Trouble between the IPCOM 4G and the control panel

1354 001 99 = Comm Failure on channel IP #1 (Ethernet)

1354 003 99 = Comm Failure on channel GPRS #1

1354 006 99 = Comm Failure on channel GSM #2

1354 000 99 = Comm Failure for all channels in 3-4-5-6 mode.

1354 020 99 = Comm Failure for channels 3 and 4 in 3-4; 5-6 mode.

1354 100 99 = Comm Failure for channels 3 and 5 in 3-5; 4-6 mode.

1354 200 99 = Comm Failure for channels 4 and 6 in 3-5; 4-6 mode.

IPCOM 4G Cloud module registration of the website

(Please check your IPCOM devices Firmware. Cloud connection required LC15 or latest Firmware.)

1. Go to www.ascloudmanager.com website and create an account
2. Enter your email address and password then your name
3. Country settings (for setting module parameters)
4. Select your native language
5. Set the website language
6. Enter Title (Installer / End User / Monitoring Station)
7. Click the 'I'm not a robot' box and click '**Register**'
8. After entering the website, click on the "**Tools**" menu and add our IPCOM module to your account with the "**Add registered device to user**" button
9. Enter the name of the installation site for easier identification
10. If you already have more than one device, you can assign your new device to "**Installation Locations**"
11. In the line "**MAC / IMEI address of the new module**" enter the MAC number of the new IPCOM 4G module and press the "Save" button.

After successful registration, our IPCOM module will appear in the "**Tools**" list and will be available.

Configure IPCOM 4G Cloud module for output control

A To control the output with a control icon, you need to change the IO connection points to outputs in the IPCOM 4G Cloud module settings. We use the "Terminal" program for this.

[Terminal 2.50 Download](#)

Open Device Manager in your PC operating system

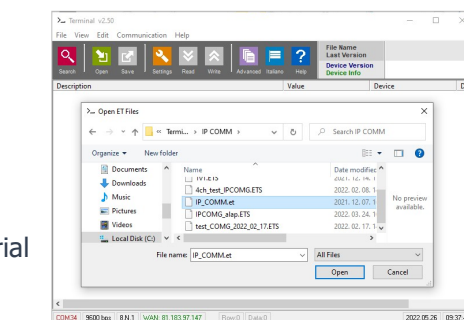
Connect your USB cable compatible with the IPCOM 4G Cloud device to the PC and search for the current COM connection point in Device Manager. Open the Terminal program, then the IP_COMM.et file shown in the picture and select IP COMM 4G (Ethernet).

Open the "**Communication / Settings**" menu in the Terminal program, select the appropriate connection COM port next to the Serial port.

Read the module settings by pressing the "**Read**" button

Find the **IO settings** and change the input to output control type, then save the settings by pressing the "**Write**" button.

IP COMM (Ethernet)
☐ Remote Control
☒ IP-G/PRO (Ethernet and GPRS/GSM)
 IP-3G/PRO 3G, IP-4G, IP NB-IoT
☒ G COMM (GPRS/GSM)
 3G COMM 4G COMM NB-IoT COMM



IO 1 Parameters (onboard)		
IO 1 Operation Mode		Input
Input 1 - Event Code		1130
IO 2 Parameters (onboard)		
IO 2 Operation Mode		Output
Output 2 - Operation		Remote control (IP or SMS)
Output 2 - Time		0 sec

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Add control icon in Cloud Manager application



1. Make sure you are logged in to the Cloud Manager application with your registered email  address. In the Tools menu, a check mark appears at the top of the screen to indicate the logged in status. If there is no check mark, click the enter button and enter your email address and password. (with which you registered the product)
 2. Select the device you want to control in the Devices list.
 3. At the bottom of the window that will open, in the Create icon row, click the ">" sign.
 4. Press the "+" sign in the upper right corner
 5. Select the cloud icon to create the control button.
 6. Name the control icon (eg Holiday heater, Home gate, Lighting)
 7. Select the background color and icon for the control icon.
 8. Select between IO1 and IO2 and then the output type (monostable / ON / OFF), in case of monostable the output control time. (1-65535s)
- Clicking the Save button on your control icon is complete, available on the Control Menu in the main menu and ready to use.

IPCOM 4G Cloud module at www.ascloudmanager.com

Place	Type	ID	Status	Status date	Last client login date
IPCOM 4G TECH	IPCOM 4G	BC8893128856	  	2021-12-02 15:05:30 	2021-12-02 14:03:56

Showing 1 to 1 of 1 entries

Device status

We can see the current status of the output or inputs of our device.

Green indicates the cloud connection status of our device.

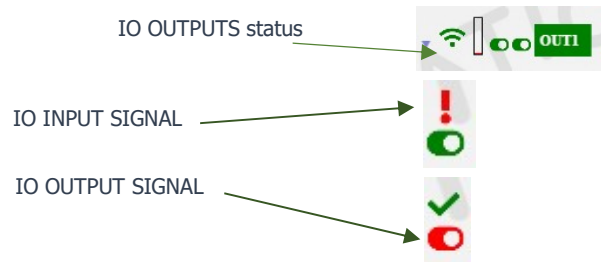
The device is ONLINE



The color green means dormancy. Approaching your cursor displays the name you entered.

If the status of the output changes, the color will change to red and you will see an "Offline" message.

You can monitor output or input signal states on your device.



Notifications

There are two types of notifications:

- **system notifications**, which usually contain important messages about the server, development, or any system
- **status notifications**, where we receive e-mail notifications about the controls and conditions we have selected to the e-mail address we have also chosen.

Create notifications

Push the „Add notification” button

Local signal

You can select the output or input of the IPCOM module depending on which one changes you want to be notified about.

Types you can specify the direction of the output change

OFF->ON Send a notification when turned ON

ON->OFF Send a notification when turned OFF

Notified e-mail address

Select the e-mail address to which you want to send the notification. You can also personalize the message and subject field.

NOTE!

Depending on the user and e-mail address with which the module is registered, you may not see an e-mail address or the e-mail address to which you want to be notified. In this case, select the desired e-mail address from the Users menu and add the one to be notified for e-mail setup. After saving, log out and log back in at www.ascloudmanager.com.

Continue setting the notification to the desired email address.

Add an managing users

After registration, the e-mail address provided during registration will be displayed in the device.
(admin email address)

NOTES!

If you delete this email address from the list of users, we will not see the device the next time you log in!

If no users are saved to the device, the device will be automatically deleted from the database in a few days.

You can assign users to your device by entering a user email and password, you can make personal privileges to them.

The **number of users is unlimited**, so you can give access as you wish by entering an email address. Each user can control the output of the MultiOne GSM module with privileges e-mail address.

Create new user

To create a new user, you may want to enter a daily email address to be notified of the status change. You can enable or restrict notifications. We have the ability to specify the language used to log in, so all users can easily and conveniently manage the device.

Add new user ✕

User:

Password:

Password again:

Contact name:

Kapcsolat tartó email címe:

☐ I do not request email notifications.
 +

Residence (country):

Preferred language (native):

Webpage language:

Role:

General

Outputs

☐ Admin
☐ Service
☐ Reading
☐ WiFi control
☐ Status

Cancel
Save

User:	login email address to www.asccloudmanager.com website
Password:	new user login password
Password again:	password confirmation
Contact name:	name for email address (fr identification, greeting)
Email of contact person:	You can receive notifications at the user's notification email address. If you do not want to be notified, select "I do not want to be notified".
Residence (country):	Select the country where you live
Preferred language (native):	Select your native language
Webpage language:	Select the language of the website. When opened, all functions can be read in this language. Our service is constantly expanding, currently available in 5 languages. The language of the page can be changed after logging in.
Role:	Select you user status (Enduser, Installer)

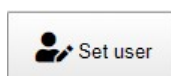
Give additional users access. You can give users individual permissions.

Add more users

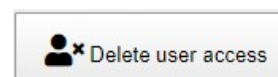
User:	new user email address
Password:	new user login password
Admin:	Administrator access You have all permissions except to delete the user who created the permission.
Service:	Reading permission, allows access to service data related to the operation of the module.
Reading:	Reading permission
WIFI control:	Here we can define what area of use we provide to our user. If selected, the user can only control the output within the local WIFI network.
out1:	Assign user output to control.

After saving, the settings can be used immediately.

Modify user information



By clicking on the "Set user" button, all user data can be changed. You can change your own or other users' login passwords. If you no longer need access, you can delete it.

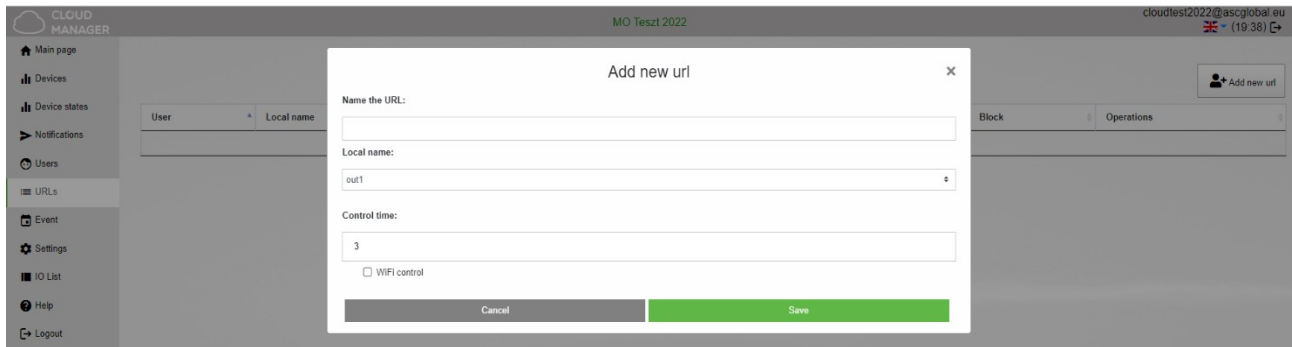


NOTE!

Just as we have created a user, we can delete it. Pay special attention to deleting the email address created as an admin from the users queue, no longer seeing the device the next time you log in, and if no users have been saved to the device, the device will be automatically deleted from the database.

Create URL control icon

In URL menu, you can use the "Add new URL" button to create a control icon for your desktop PC or laptop. Name the control icon that can be controlled from the PC.



Here you can also specify whether to check the local WIFI availability for control. If the WIFI limit is enabled, their control icon will only be used within the scope of the local WIFI network. Turning this off will allow you to control the output from anywhere with an Internet connection. An excellent service for allocating rights.

Drag to the screen with the left mouse button and the URL will already operate the device connected to the output.

Felhasználó	Helyi elnevezés	Link	Vezérlési idő	Wifi korlát	Tiltás	Műveletek
test924@ascglobal.eu		Door open PC button	0	<input type="checkbox"/>	<input type="checkbox"/>	 

You can edit your existing URL connection. You can change your settings or disable them.

If you no longer want to use it, simply delete it with the appropriate symbol.

SMS programming

In case it is needed (and the SIM card used in the unit is capable to send and receive SMS messages), the most important features and parameters can be configured using SMS messages.

An SMS message can contain multiple commands, separated by spaces. The proper execution of the commands is verified by answering an „OK” messages. If there is any problem with the commands, an „ERROR” reply message is generated. After some specific control commands, the device will perform a reboot.

A security code is necessary for the SMS programming. It can be set in the Terminal, the default value is 1234. Furthermore, the security code starts with a hash-tag(#), and it is closed with an asterisk(*). Then the command has to be written with a space.

SMS command list

Description	SMS command		x value		value after = sign	Example
The communicator will be reset within 30 seconds.	<i>reset</i>				Command	#1234* reset
The communicator reports the status of its inputs and its firmware version.	<i>?</i>				Command	#1234* ?
Sets the APN for the SIM card	apn			=	apn apn,apn-user,apn-psw	#1234* apn=online #1234* apn=my.apn,id,pw
Sets the account-id of the communicator globally, or by individual channels. The device will restart within 30 seconds.	a	x	The number of the channel	=	Account-id	#1234* a=1234 #1234* a3=5678
This command sets the server parameters for channels 3 and 4, and the CMS phone number for channels 5 and 6. The protocol setting (tcp or udp) is optional, and the phone number has to be given in international format, without the preceeding + or 00 prefix. Setting s=0 will disable reporting on all channels, s4=0 will disable reporting on channel 4. The device will restart within 30 seconds.	s	x	The number of the channel	=	ip:port:tcp/udp phone-nr	#1234* s4=my.ams.com:987:tcp #1234* s5=36301234567
Sets the test period in minutes, for the given channel. The period value can be between 0 and 65535, setting 0 will disable test reports. The device will restart within 30 seconds.	t	x	The number of the channel	=	test-period	#1234* t4=10
Sets the test code globally, or by individual channels. Please, take care to program a valid Contact-ID code. The device will restart within 30 seconds.	tc	x	The number of the channel	=	test-code	#1234* tc=1603
Can be used to control the on-board outputs of the communicator. Value of<n> can be 1 or 2. The corresponding I/O of the	o	x	The number of output		on/off	#1234* o1=on

device should be programmed as an output, and the operation of the output follows the preprogrammed scheme. The output can be activated with the „on“, or „1“ values, and deactivated with „off“ or „0“.						
Can be used to control the outputs of the IO-84 module(s), connected to the communicator. Value of <n> can be 1 to 8. The operation of the corresponding output of the IO-84 will follow its preprogrammed scheme. The output can be activated with the „on“, or „1“ values, and deactivated with „off“ or „0“. When no IO-84 module(s) are connected to the communicator, the command will be acknowledged, but ignored.	o	x	The number of output	=	on/off	#1234* o1=on
The command can be used to set the telephone numbers, which can activate the gate-control function. Value of <n> can be between 1 and 8. To use the gate-control function, some of the outputs of the communicator (or a connected IO-84 module) must be enabled and set to „gate-control“ mode. In this mode, any calls received from the given telephone numbers will activate the corresponding output.	p	x	The number of the phone number	=	phone-number	#1234* p5=3630123456

Technical data

	IPCOM 4G
Power Supply	10,5 – 28,0 Vdc
Standby Current	80 mA
Maximal Current	600 mA
Inputs / Outputs	2 programmable
Output type / rating	OC / max. 50 mA
Ethernet connection	10 Base-T
Mobile modem	IPCOM 4G: M95 Quad band 850/900/1800/1900 Mhz GPRS Class B, Multislot Class 12, GSM Class 4/Class1 2G: GSM 900/1800MHz 3G: WCDMA B1/B8 4G: LTE-FDD B1/B3/B7/B8/B20/B28
Antenna	SMA
Event buffer	Up to 64 events
Operating temperature	-10 °C / 50 °C
Size (W / L / H)	60 x 105 x 12 mm
Weight	70 g