



4G Intercom

eCO Range



## Product Information

The GSM 4G Gate Intercom incorporates a professional industrial grade GSM engine that receives calls at its SIM number, as any ordinary GSM phone. The system operates in the GSM module Quad-band 850/900/1800/1900/ and works on several 4G Bands.

When a visitor arrives at your property they will press the call button on the intercom which will then connect to a phone number (up to 2 numbers can be added which will be rung in sequence) of your choosing. Once you answer the phone and speak to them you can then open the gate from your phone and let them in remotely from wherever you are in the world.

You can also open the gates by dialling the simcard number.

The advantages of this over other systems are that you do not have to leave the car to open your gates, avoiding weather or safety issues. Furthermore, you don't need to carry around a separate remote device or indeed replace it if it were to get lost!

No phone line is required as the unit will use the mobile phone network to place the calls.

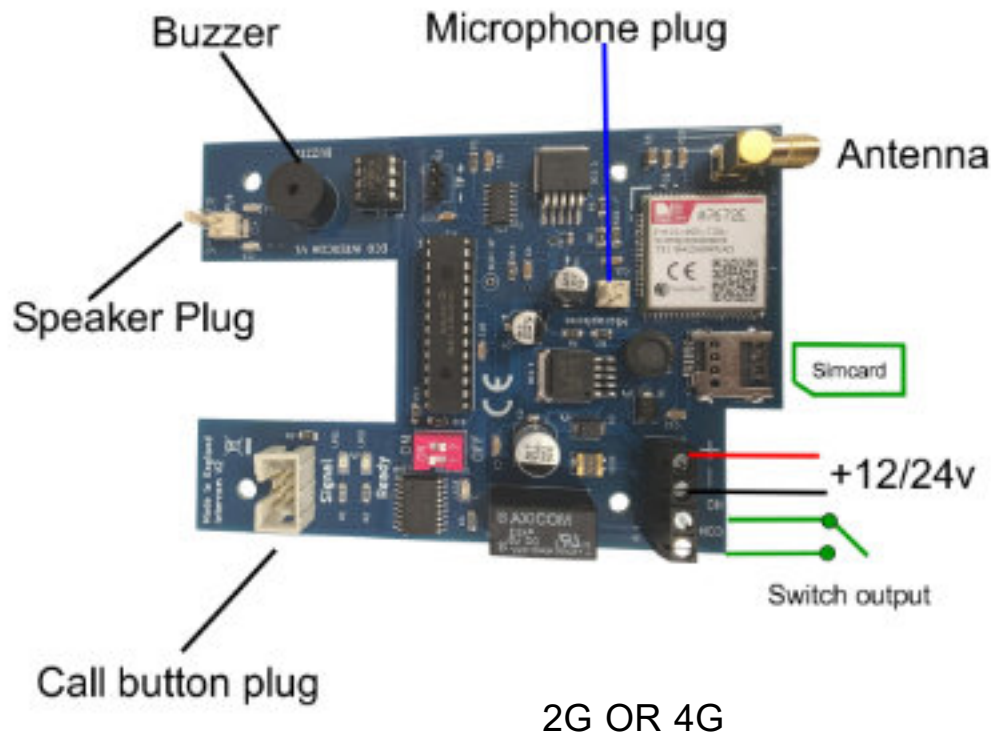
## Specification

- GSM Frequency: Quad band freq 850/900/1800/1900
- Power Supply Voltage: 12 DC
- 4G Bands – B1/B3/B5/B7/B8/B20
- Current used in standby mode: 70 Milliamps.
- Max current: up to 2 amps.
- Aluminium Enclosure.
- Standard 2G or 4G simcard.
- No Landline Required.
- Dimensions - L185 x W110 x H65mm
- Operating temperature: -10...+40°C
- Signal strength function.
- Stay Active simcard Function.
- Phone list for dial to open access (100 users)
- Hold gate open feature..
- Easy programming via SMS message
- Adjustable Relay Time.

## SIM Active Function

All of our GSM products come with a SIM Active Function meaning that it will send a text message every six weeks to a pre-programmed number we at GSM Activate own to prevent the SIM card from being shut down due to inactivity.

## Instructions



The intercom can work on both 2G and 4G Networks, you can choose which network the unit will use via Dipswitch setting 1

Dipswitch 1 OFF The unit will search for a 2G Network

Dipswitch 1 ON The unit will search for a 4G Network

Dipswitch 2 Not used

### IMPORTANT - PLEASE READ

Please ensure that you disconnect the power when you fit the simcard and that you place the simcard with the clipped corner facing outwards. As shown in the picture above.

Signal LED (blue)

The blue LED flashes once per second to indicate when a signal has been found.

Ready LED (green)

The green LED will come on when the unit is ready for Operation.

### SIM Active Function

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## Installing you Simcard

Your new simcard will need registering before they can be used. Full details of how this is done can normally be found in the SIM card pack. It will normally require that the SIM card is inserted into a mobile phone, a number dialled and instructions followed. While the SIM is in the mobile phone it would be a good time to disable call diverts, ring backs and disable features such as voicemail and text alerts. Please be advised that if the e-com will be used on a regular basis, we would recommend a contract based SIM card as pay as you go charges can be as high as 25p per call.

The GSM e-com has a built in "sim active function" which keeps track of the units activity. If there has been no usage for 6 weeks it will send out a text message to a preset recorded number to keep the simcard alive. This then eliminates the problems of sim's being shut down if they are unused for 3 months by the network

Please activate and put credit on your simcard then disable the voicemail using the following codes

Vodaphone:	call 1210	Tesco	call 2915
T-Mobile:	call 222	O2	call 1760
Orange:	call 4502	Giff Gaff	call 1626
EE - send the text message command VM OFF to 150			

Once power has been applied (referring to figure 1) the **blue** network LED light will flash once every second. Once a signal has been found the **green** LED will come on and stay on.

To check the strength being received please send the text message

**#SIGNAL#**

The unit will reply back with a score from 1 - 30. The unit must have a score of at least 10.

## Programming the E-com Call Button Entry

On the front panel there is one intercom call button. Pressing this call button will dial the primary and then the divert number if there is no answer from the primary number. To programme these numbers you will need to send a text message code which will store the number you want to use in either the primary or divert position.

Example

**#PRI=07123456789#**      This stores the mobile phone number as the primary number for the call button

**#DIV=07234567891#**      This stores the mobile phone number as the divert number for the call button

If the code is accepted the unit will reply "PRI number stored" or "DIV number stored"

To delete either the primary or divert number please follow the examples below

Primary Number

**#PRI\*DELETE#**

Divert Number

**#DIV\*DELETE#**

### IMPORTANT - PLEASE READ

There is a maximum of 15 digits per phone number stored

The Intercom can be reset by texting

**#FACTORY=RESET#**

**WARNING** This will return the unit to its factory setting and you will lose all of your programming and parameters.

## Using Intercom Call Button Entry

Once the numbers have been programmed for the intercom, the call button is ready to be used. Visitors will press the call button on the intercom. This will then call the stored primary phone Number for 30 seconds.

### Acknowledging the call (5 on Phone keypad)

When answering a call from the intercom, you must press the number 5 keypad button on your phone. This prevents the call continuing and being sent to the divert number. The call will now only end when you hang the phone up.

Once you have acknowledged the call and are speaking to the visitor, you can press the following keys on your phone keypad for different actions to open the gates / doors.

# (hash) Key on your phone. Activates relay to open the gate.

Phone Keypad Number **3** This locks on the relay to hold the gate open.

Phone Keypad Number **5** Acknowledges the call as above.

If the gate has been held open, you can release it by just calling the simcard number

### Primary & Divert Numbers/Using Voicemail.

The intercom will call the primary number for 30 seconds. If it is not answered it will divert to the divert number and again ring for 30 seconds.

Please acknowledge the call by pressing **5** to stop the call being sent to the divert number.

If the unit hits voicemail it will not be acknowledged and move to the divert number after 30 seconds.

To prevent it going to answer phone, you can shorten the ring time from the default of 30 seconds, to between 10 - 30 seconds by sending the text command

**#ANSWER=10#** - sets ring time to 10 seconds

**#ANSWER=30#** - sets ring time to 30 seconds (Default)

Please note the average answer phone normally comes in at 15 seconds , but this can vary.

## Text Commands for Gate Entry

To open the gate permanently from your phone, you can send a text

**#OPEN#** This will hold the relay on.

To close the gate just ring the simcard number this will reset relay, and the gate will close.

## Relay Pulse Time

The default pulse time for the relay is 1 seconds.

You can increase this to 3 seconds by sending the text command.

**#FAST#** - this will set the relay pulse time to 1 seconds.

**#SLOW#** - this will set the relay pulse time to 3 seconds. (default)

## Microphone and Speaker Volume

There are 7 levels of sound for both the microphone and Speaker, these can be set using the following SMS text commands

### Speaker

**#SPK=1#** - Low

**#SPK=7#** - high (default SPK 4)

### Microphone

**#MIC=1#** - Low

**#MIC=7#** - High (default MIC 7)

Please note that the VR1 control on the board controls the keypad volume only

## Programming Dial to Open e-com (WHL List) (Caller ID)

You can open the gate direct from a mobile phone or landline by calling the simcard number. Once you call the number the GSM Intercom will reject the call and take the command to open the gate.

We have a caller ID function controlled by a text command. If this is set to ON only the numbers stored in the intercom will be accepted to open the gate. If it is set to OFF there is NO caller ID security and any caller can open the gate.

To turn caller ID function on send the text

**#ID=ON#**

To turn called ID function off send the text

**#ID=OFF#**

To program a number to the caller ID (whl) list you will need to send a text message code:

**#WHL=NUMBER#**

To delete the number send a text message code:

**#DEL=NUMBER#**

Example     **#WHL=07713099514#** to store you mobile number.

Example     **#DEL=07713099514#** to delete mobile number.

If the code is accepted the unit will reply "WHL number stored" If the code is accepted the unit will reply "WHL number deleted"

To reset all numbers you can text the code

**#RESET=WHL#**

This will delete all your WHL numbers using the one command.

**#SIGNAL#**

The unit will reply back with a score from 1 - 30. The unit must have a score of at least 10.

## Important Installer Notes

- When installing the aerial antenna cable please ensure that the cable leaves the back box by the shortest route possible and is not coiled up left inside the e-com.
- Do not stick the aerial to any metal surface. This will degrade the signal strength received.
- Only use the power supply that is supplied in the kit.
- Please remove voicemail function from the simcard before installing into the intercom. Major UK network voicemail removal codes are shown on page 4.
- Prior to commissioning, please ensure that signal strength is sufficient by sending the text [#SIGNAL#](#). We recommend you need a score of at least 10. Please try both 2G and 4G via Dipswitch 1.
- If you do not receive a good signal strength, please reposition the aerial antenna to improve the signal strength or alternatively change the network provider as the signal strength can vary between suppliers..

## Reminder of Programming for E-com & Where to Find More Details

Intercom entry numbers (call button)

To add Primary        **#PRI=07713099514#**

To delete Primary    **#PRI\*DELETE#**

To add Divert        **#DIV=07713099514#**

To delete Divert     **#DIV\*DELETE#**

Full instructions are on page 5

### Call ID (Dial to Open) (whl list)

To store white list number    **#WHL=07713099514#**

To delete white list number   **#DEL=07713099514#** Max 100 Numbers.

Full instructions are found on page 8

To hold gate/door open send a text message command

**#OPEN#**

To close send a text command

**#CLOSE#**

Full instructions can be found on page 6

### Factory Reset & Signal Strength Check

**#RESET=FACTORY#**        **WARNING** This will return the unit to its factory setting and you will lose all of your programming and parameters.

**#RESET=WHL#**            Delete all white list numbers only

## Quick Reference Commands

Send Text	Operation	Acknowledgment
#PRI=NUMBER#	Stores Number to Primary Position For Button 1	Number Stored
#DIV=NUMBER#	Stores Number to Divert Position For Button 1	Number Stored
#PRI=*#	Deletes Number in Primary Position	Number Deleted
#DIV=*#	Deletes Number in Divert Position	Number Deleted
#ID=ON#	Sets Caller ID ON	ID=ON
#ID=OFF#	Sets Caller ID OFF	ID=OFF
#ANSWER=10#	Sets Ring Time For Answerphone to 10 seconds ( adjustable 10 - 30 )	Answer Set
#CLOSE#	Close Relay 1	Lock Closed
#OPEN#	Lock Relay 1 On	Lock Open
#SIGNAL#	Gives a Signal Strength Test	score of 1 - 30
#SLOW#	Sets Pulse Relay time to 3 seocnds	Relay Slow
#FAST#	Sets Pulse Relay Time to 1 Second	Relay Fast
#WHL=NUMBER#	Adds Number to WHL List (200 Spaces)	WHL Stored
#DEL=NUMBER#	Deletes Number in WHL List (200 Spaces)	WHL Deleted
#RESET=WHL#	Resets WHL Numbers Only	
#RESET=FACTORY#	Reset to Factory Settings	
#MIC=1-7#	Turns Microphone Volume from 1 - 7	1 to 7 (default is 7)
#SPK=1-7#	Turns Speaker Volume from 1 - 7	1 to 7 (default is 4)

For more technical support please browse the FAQ's on our website  
[www.gsm-activate.co.uk](http://www.gsm-activate.co.uk)  
 Alternatively email our Technical Support team at [technical@gsm-activate.co.uk](mailto:technical@gsm-activate.co.uk) and we will  
 reply or call you back within 24 hours Monday - Friday.