GSM 4G INTERCOM
WITH KEYPAD & 4 BUTTONS

Product Information

The GSM 3G 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 850/900/1800/1900/2100Mhz and incoporates 3G capabilities.This Intercom works with both 2G and 3G Simcards.

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 held within the unit and also by pressing a combination of your choice on the keypad.

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, 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.
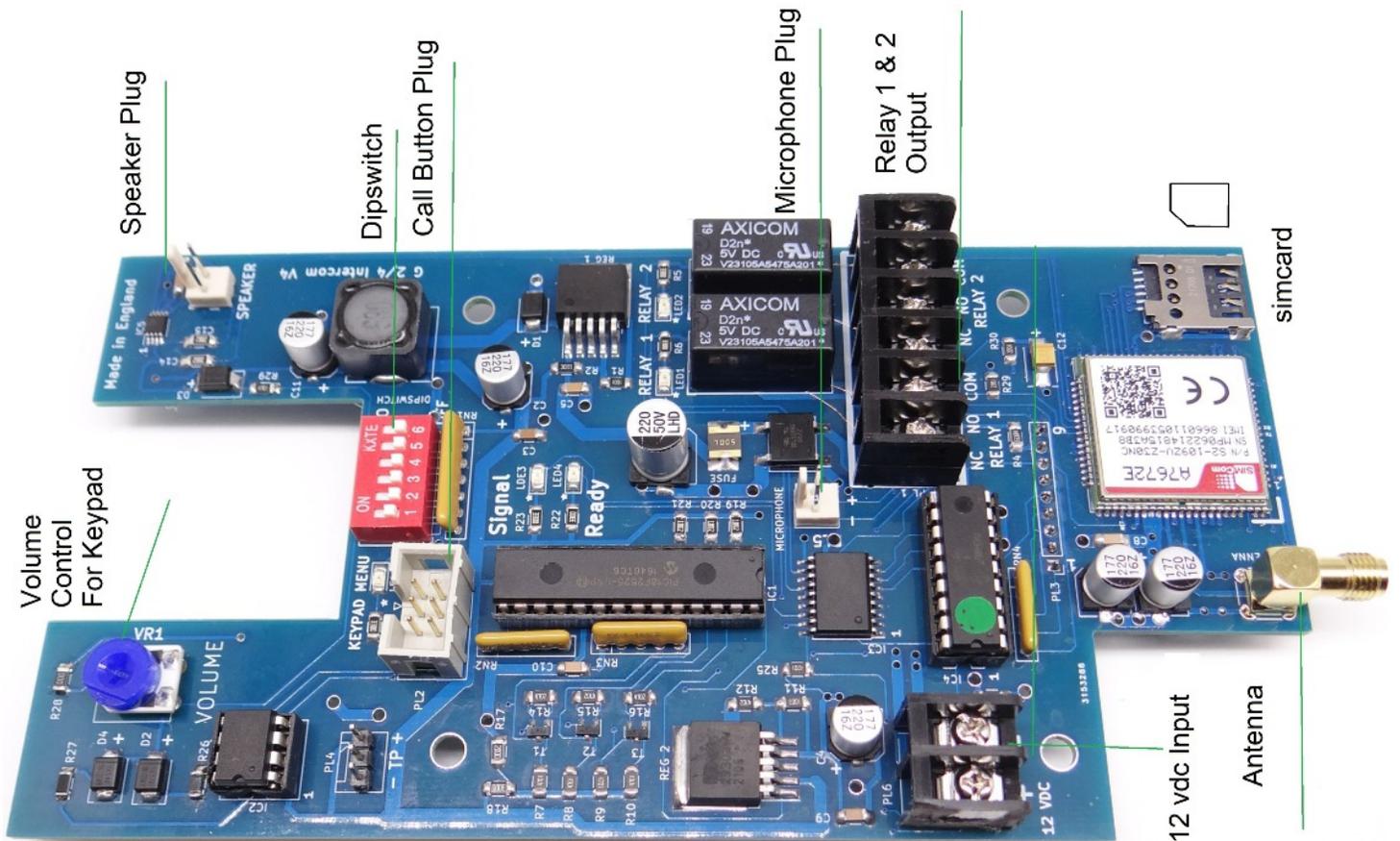
Specification

- 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.
- Stainless steel vandal proof Enclosure.
- Backlit keypad.
- Standard 2G or 3G simcard.
- No Landline Required.
- Dimensions - L260 x W120 x H45mm
- Brushed stainless steel is 2mm thick.
- Operating temperature: -10...+40°C
- Signal strength function.
- Stay Active simcard Function.
- 4 Call points (activated in sequence) per button.
- Digit keypad code access (50 seperate 4 digit access codes)
- Phone list for dial to open access (30 users)
- Hold gate open feature.
- Pedestrian relay or door lock.
- Easy programming via SMS message (keypad programmed via keypad
- 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 being shut down due to inactivity.

Instructions

Labels on the board image:
- Speaker Plug
- Dipswitch
- Call Button Plug
- Microphone Plug
- Relay 1 & 2 Output
- simcard
- Volume Control For Keypad
- 12 vdc Input
- Antenna
- Signal
- Ready

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.

Keypad LED (red)   When the red light is on it indicates you are in keypad mode for programming the keypad. (Dipswitch 1 on)

Dipswitch   To adjust dipswitch settings refer to Page 10

Installing your simcard

New SIM cards 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 back and disable features such as voicemail and text alerts. Please be advised that if the intercom will be used on a regular basis, we would recommend a contract based sim card as pay as you go call charges can be as high as 25p per call.

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

Ensure the unit is powered down before inserting the simcard

1: Slide back the sim door and lift it up.
2: Slide the simcard in to the door making sure that the clipped corner of the simcard
   lines up with the clipped corner of the sim holder.
3: Close the SIM door.
4: Slide the SIM door to lock the simcard in place.
5: Connect 12 volts DC to the input connector as per figure 1.

Important DC Only - Please use the power supply supplied with the unit

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 #SS
The unit will reply back with a score from 1 - 30. The unit must have a score of at least 10.
We strongly recommend checking the signal strength on both 2G and 3G and using which has the highest signal strength score. The signal strength should be at least a score of 10 for reliability.

For use with the mobile network "three" you can only use 3G settings.

2G OR 3G

The intercom can work on both 2G and 3G networks, you can choose which network the unit will use via Dipswitch setting 1.

Dipswitch OFF   The unit will search for a 2G Network signal.
Dipswitch ON   The unit will search for a 3G Network signal.

Programming Intercom Call Button Entry.

On the front panel there is 4 intercom call button. Pressing the relative call button will dial the primary and divert 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=1*07713099514#   This stores the mobile phone number as primary number for
                                          the call button 1.
#DIV=1*07713099514#   This stores the mobile phone number as divert number for the
                                          call button 1

#PRI=2*07713099530#   This stores the mobile phone number as primary number for
                                          the call button 4.
#DIV=2*07713099530#   This stores the mobile phone number as divert number for the
                                          call button 4 .

To delete a stored number use location followed by star hash(see table below)

#PRI=1*#   Deletes the primary mobile number
#DIV=1*#   Deletes the divert mobile number

IMPORTANT - PLEASE READ
There is a maximum of 15 digits per phone number stored

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

The Intercom can be reset by texting

#RESET=FACTORY#

This will delete all primary and divert numbers plus your dial to open (whl) numbers.

IMPORTANT - PLEASE READ It
will not affect keypad codes

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	Activates relay 1 to open the gate
* (star) Key	Activates relay 2 to open the pedestrian or door lock
Phone Keypad Number 3	Locks on relay 1 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 calling the simcard number or enter your 4 digit code on your intercom keypad. This will close the gate.

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.

Programming Dial to Open Gate Entry (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 the caller ID text command. If this is set to ON only the numbers stored in the WHL list will be accepted to open the gate. If set to OFF there is NO caller ID security and any caller can open the gate.

The unit can store 200 WHL numbers

To turn caller ID on send a text message

#ID=ON#

To turn caller ID off send a text message

#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#   Stores your mobile number.
Example   #DEL=07713099514#   Delete your 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 primary and divert numbers plus your dial to open (whl) numbers.

NOTE - It will not affect keypad codes.

Text Commands for Gate Entry

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

#OPEN#   This will hold the relay 1 on

To close the gate just ring the simcard number this will reset relay 1 and the gate will close.

To open relay 2 you can send the text

#PED# - this will pulse relay 2

Relay Pulse Time

The default pulse time for each relay is 2 seconds. You can increase this to 10 seconds for each relay by sending the text

#FAST#   This will set the relay pulse time to 2 seconds
#SLOW#   This will set the relay pulse time to 10 seconds

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=4# - Medium (default)
#SPK=7# - High

Microphone
#MIC=1# - Low
#MIC=4# - Medium (default)
#MIC=7# - High

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

Program Keypad Entry

You can open the gate via the keypad with a 4 digit keypad access code. (Up to 50 codes can be stored). The keypad is independent from the rest of the intercom. It does NOT need a signal or even a simcard to work.

To add your keypad numbers, simply enter keypad admin mode. This is done by switching dipswitch 1 to on - the red LED will come on to indicate you are in keypad admin mode.

You can now enter a 4 digit code and assign the code to either relay 1 or relay 2. This is done by either the # or * key after entering the 4 digit code.

Example you type - 1234#   To assign relay one   (could be full access to property)
                    5412*   To assign relay two (could be pedestrian access to property)

If the code is accepted you will hear 4 beeps. If you make an incorrect entry you will hear a singular long beep and you will need to start again.

To delete a stored 4 digit code enter the 4 digits followed by the zero key to confirm. If the code is deleted successfully you will hear 6 beeps. If you make an incorrect entry you will hear a singular long beep and you will need to try again.

Example you type - 54120   Delete the code 5412

NOTE - To delete all keypad codes type 00000

Example - 00000

Once your numbers are stored you will need to turn dipswitch 1 back to the OFF position. Failing to do this will will mean the keypad is unusable as it will still be in admin mode.

How to operate keypad

Type in the 4 digit code. It will operate the relay you have programmed as above.

Relay Pulse Time

The default pulse time for each relay is 2 seconds. You can increase this to 10 seconds for each relay via dipswitches 3 and 4. Please see dipswitch settings on Page 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 intercom.

- Do not stick the aerial to any metal surface. This will degrade the signal strength received.

- Only use 12 volts DC 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 the 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 3.

- 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.

- We do not recommend using three network simcards as the only work on 3G only. This means sometimes they struggle for a consistent signal as they can not fall back onto 2G like other networks.

Dipswitch Settings

1 ON	KEYPAD ADMIN	When switched ON you can store or delete keypad access numbers. - IF ON RED LED WILL COME ON.
1 OFF	KEYPAD ADMIN	When switched OFF the intercom will act as Normal.
2 ON	NOT USED	NOT USED
2 OFF	NOT USED	NOT USED
3 ON	4G Frequency	Intercom will boot up in 4G Frequency
3 OFF	2G Frequency	Intercom will boot up in 2G Frequency
4 ON	NOT USED	NOT USED
4 OFF	NOT USED	NOT USED
5 ON	NOT USED	NOT USED
5 OFF	NOT USED	NOT USED
6 ON	NOT USED	NOT USED
6 OFF	NOT USED	NOT USED

Reminder of Programming & Where to Find More Details

Intercom entry numbers (call button)

To add Primary   #PRI=1*07713099514#

To delete Primary   #PRI=1*#

To add Divert   #DIV=1*07713099514#

To delete Divert   #DIV=1*#

Call ID (Dial to Open) (whl list)

To store white list number   #WHL#07713099514#
To delete white list number   #WHL*07713099514# Max 30 Numbers.

To hold relay 1 on send a text message command

#OPEN#

Reset when finished by dialling the simcard number.

Keypad Entry (dipswitch 1 on position)

To ADD a code press your 4 digit code followed by # for relay one or * for relay two.

To delete a stored code press your 4 digit code followed by zero (0) key.

Example -   1234#   Assigns 1234 to relay 1 Example -
              1234*   Assigns 1234 to relay 2
Example -   12340   Deletes stored 1234 code.

Factory Reset & Signal Strength Check

#RESET=FACTORY#   - Delete all intercom button numbers and (WHL) white list numbers.
#SIGNAL#   - Signal strength test and text you the score.

Quick Commands

SEND TEXT	OPERATION	ACKNOWLEDGEMENT
#PRI=1*NUMBER#	Stores Mobile Number to Primary Position Button 1	PRI Number Stored
#PRI=2*NUMBER#	Stores Mobile Number for Primary Position Button 2	PRI Number Stored
#PRI=3*NUMBER#	Stores Mobile Number to Divert Position Buton 3	PRI Number Stored
#PRI=4*NUMBER#	Stores Mobile Number to Divert Position Buton 3	PRI Number Stored
#DIV=1*NUMBER#	Stores Mobile Number to Divert Position Buton 2	DIV Number Stored
#DIV=2*NUMBER#	Stores Mobile Number to Divert Position Button 2	DIV Number Stored
#DIV=3*NUMBER#	Stores Mobile Number to Divert Position Button 3	DIV Number Stored
#DIV=4*NUMBER#	Stores Mobile Number to Divert Position Button 3	DIV Number Stored
#PRI=1*#	Deletes Primary Position Number	PRI Number Deleted
#DIV=1*#	Deletes Divert Position Number	DIV Number Deleted
#WHL=NUMBER#	Adds Number to WHL List	WHL Number Stored
#DEL=NUMBER#	Deletes Number from WHL List	WHL Number Deleted
#SIGNAL#	Gives Signal Strength	Score of 1-30
#ID=ON#	Sets Caller ID to ON	ID=ON
#ID=OFF#	Sets Caller ID to OFF	ID=OFF
#PED#	Pulse Relay 2	Gate Open
#OPEN#	Locks Relay 1 ON	Lock Open
#SLOW#	Sets Pulse Relay Time to 3 Seconds	Relay Slow
#FAST#	Sets Pulse Relay Time to 1 Second	Relay Fast
#RESET=FACTORY#	Resets to Factory Setting	
#RESET=WHL#	Resets WHL Numbers ONLY	
#SPK=1-7#	Turns Speaker Volume from 1-7	1-7
#MIC=1-7#	Turns Microphone Volume from 1-7	1-7
1234#	Assigns Code to Relay 1	Hear 4 Beeps
5432*	Assigns Code to Relay 2	Hear 4 Beeps
12340	Deletes Stored Code 1234	Hear 6 Beeps
00000	Deletes ALL Stored Codes	Hear 6 Beeps

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