Quick Start User Guide (Support +44 151 318 0792)

4G VoLTE Intercom: SMS Programming

Help Video

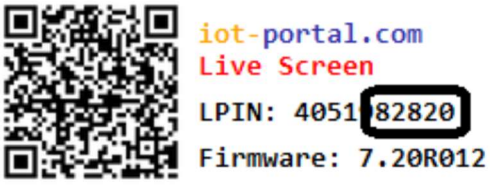
Online Manual

Quick Start Procedure

The intercom can be programmed entirely by sending SMS messages from a user's phone to the intercom SIM card phone number.
Firstly, the intercom needs to know which phone is in control. This is done by sending the master command as follows:

Master me …puts this phone in control (i.e. this is an admin phone)

If the intercom has been used before or already contains a master number you must use the 5-digit PIN. This is the last 5 characters of the IMEI number/10-digit ID.



The 5-digit PIN for 40519**82820** above is '82820'

Master 07968774663,82820. …makes 07968774663 a master phone for intercom 4051982820

Call me …dials the number that sent the message when button pressed

Call 07968774663. …dials 07968774663 when the button is pressed

Numbers are dialled in the order in which they are added!

Add 07968774663. …adds 07968774663 as a Dial-To-Open number

Remove 07968774663. …removes 07968774663 from the memory

Numbers should be entered with dot . at the end of the number (not mandatory)

List memory (truncated to 8 digits)	…displays the numbers in the
Status	…displays model, firmware, and output status
Csq	…returns received signal strength
Open	…operates the # output relay
Close	…deactivates the # output relay
Code 1234.	…adds 1234 as a # output relay keypad code
Code *4321.	…adds *4321 as a * output relay keypad code

Default Settings

To reset all settings back to default values, whilst keeping all numbers in the memory, a master phone can send the following SMS:

Clear settings

The default settings (and its associated SMS command) are as follows:

Dial-to-Open Call Channel:	#	(channel [#/*/Alt]) *alt for Alternate between calls*
Toggle Mode:	Pulse	(rlymode [Pulse/Toggle])
Reject/Connect Calls	Reject	(reject call/connect call)
Text Message Reply	Enabled	(textres [En/Dis])
Voice Reply	Enabled	(voice [En/Dis])
Ring Mode	Enable	(ring [En/Dis])
Keypad Tones	Enable	(ktone [En/Dis])
Portal Access/Logging	Enable	(web [En/Dis])
Voicemail Divert	Enable	(divert [En/Dis]) *allows call to go to voicemail*
Forward	Disable	(forward [En/Temp/Dis])
Technology Scan Mode	0	(RAT (0/1/3) *recommend always '0' for auto*
Relay (DtO) Active Time *s*	1.5s	(rlytime[#/*] [s].) *supplied value -0.5s i.e. 2 = 1.5s*
Maximum Call Time *s*	50s	(ctime [s].)
Maximum Ringing Time *s*	25s	(rtime [s].)
Mic Volume	4	(mic [1-9])
Speaker Volume	3	(vol [1-5])
DTMF	1	(1 or 2 presses to release)

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4G VoLTE Intercom: Programming via App

The intercom can be programmed by SMS or via the iot-portal.com app or a mixture of both.

New Users

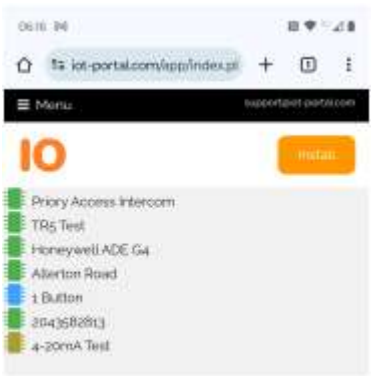
New installers should scan the 'App Invite' QR code to get to the iot-portal.com app login page. New user phone numbers will not be known to the portal so it will not be possible for the portal to send login SMS messages to these numbers. The 'App Invite' QR code bypasses this restriction. We recommend logging in via phone number for intercoms.

Help Video Below

Regular Installers

For users known to the portal, it is preferable to scan the Enrol QR code which will automatically add the device to the app.

Installing the App: Android/PC



On Android and PC, installing the app can be achieved by clicking the Orange 'Install' button in the top right of the display.

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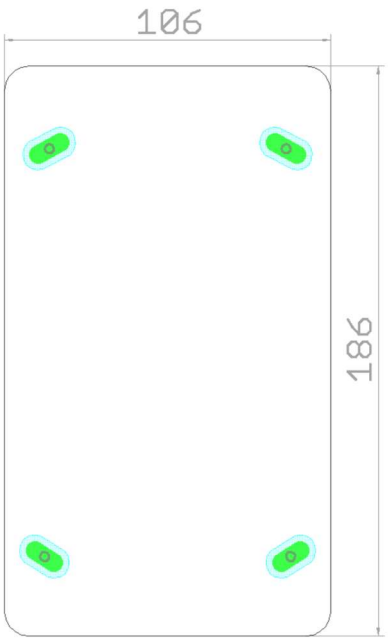
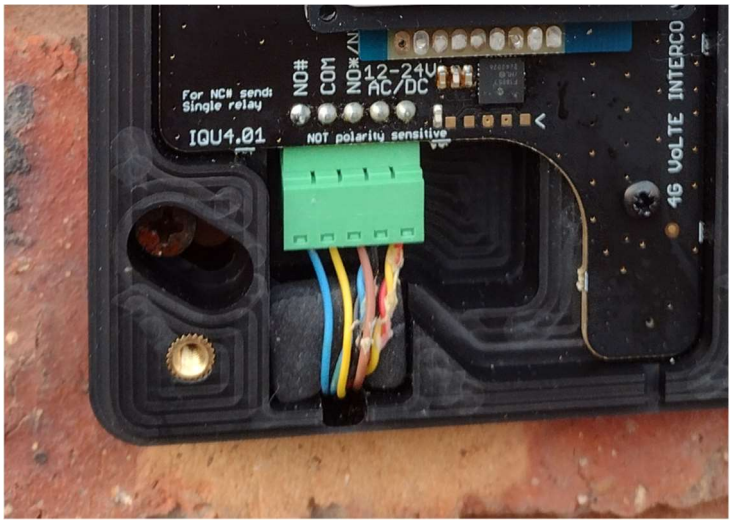
4G+ VoLTE Intercom: Mechanical Installation





Using the supplied stencil, drill the four mounting holes and the cable entry hole onto a flat surface. Screw diameter should be 4mm or less with up to a 10mm screwhead.

The surface must be fairly flat in order to not warp the intercom enclosure. This may result in the waterproof seal becoming ineffective. Do not overtighten the mounting screws.

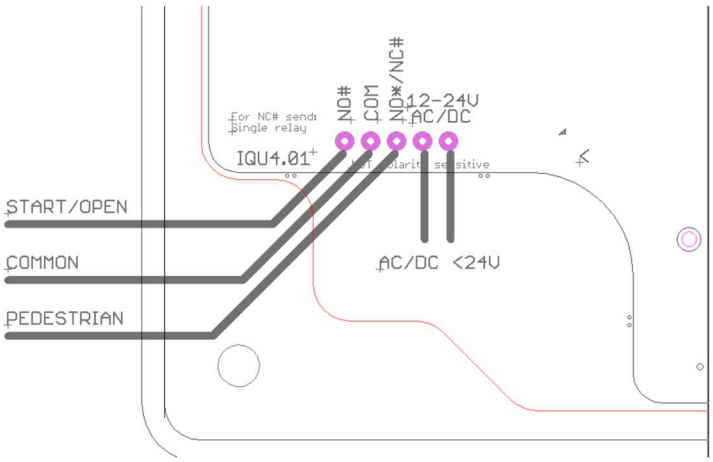
The wiring should pass over the sponge which acts as a water strainer to remove water flowing down the cable.

By default, the dial-to-open access control will operate the # relay for the time set by RLYTIME#.

The intercom features two output relays. The maximum permissible switching voltage is 48V at a current of 0.75A. The relays are protected by a 0.75A thermal fuse.

The relays share a common COM terminal labelled COM*#

Typically, the # relay is used to control the main vehicle gate and the * terminal is used to control a pedestrian entry.



Pressing the * or # key during a call operates the corresponding relay for the time set by the RLYTIME command:

Rlytime# 10. (sets the # relay active time to 10 seconds)
Rlytime* 1m. (sets the * relay active time to 1 minute)

On* …holds the * relay active until the…
Off* …command is sent to the intercom

Similarly, on# and off# controls the # relay.

The **OPEN** and **CLOSE** command operates the # like ON# and OFF# respectively.

The absolute maximum supply voltage is 24V AC or DC. The VIN terminals are not polarity sensitive and can be connected either way around. Current consumption varies from 25mA at idle to 200mA when active.

To enable any incoming number to operate the relays send:

Access any

Access list …to revert to the number list

With the intercom wired and powered up, basic programming should be performed to add a master number. Ensure the fault LED are not illuminated. The **SIG**nal LED may flash at a rate of 1/second. This would indicate a low-medium signal strength. If permanently illuminated this would indicate the intercom will not operate correctly due to a poor signal.

The **NET**work LED illuminates when there is a network fault. Typically, this indicates zero credit on a PAYG SIM card.

The **SIM** LED will illuminate when the SIM card is not detected or there is a PIN number on the SIM. If there is a PIN number, the SIM should be inserted into a mobile phone for it to be removed or set to 0000.

Once the intercom is running correctly the front panel should be screwed into place. Connect the switch wiring ensuring that the wiring does not get caught between the terminal block and the front cover which will stop the front cover making a good seal with the base.

NB: 12-24V AC/DC Absolute Maximum – Please measure AC voltage with a volt-meter.
Do not wire the intercom to mains voltages.

We recommend using a Meanwell RS-15-15 power supply.

We do not recommend using a gate controller transformer secondary winding; especially in the UK where the open circuit voltage exceeds 24VAC.

Declaration of Conformity

Document Number: DOC_INTSFC

Issuer's Name: Priory Access Ltd

Issuer's Address: 95 Allerton Road, Liverpool, L18 2DD

Object of the declaration: INTSFC1.02

The object of the declaration described above is in the conformity with the relevant Union harmonisation legislation:

2014/108/EC The Electromagnetic Compatibility

Directive 2011/65/EU The Restriction of Hazardous Substances
Directive 2014/53/EU RED Art3.1(b) Radio Equipment Directive Conformity is shown by compliance with the applicable requirements of the following documents:

Safety: EN 60950-1:2006+A2:2013

EMC: EN 301 489-1 V1.9.2 (2011-09) EN 301 489-7 V1.3.1 (2005-11) EN 301 489-17 V2.2.1 (2012-09) EN 301 489-24 V1.5.1 (2010-10)

Radio: EN 301 511 V12.0.0 (2015-02) EN 300 328 V1.9.1 (2015-02) EN 301908-1 V7.0.1 (2014-11) EN 301908-2 V6.2.1 (2013-10)

Technical Construction File required by this directive is maintained at 95 Allerton Road, Liverpool, L18 2DD UK

Signed for and on behalf of Priory Access Ltd

Name: Michael Beaver
Position: Director
Date: 16/08/2022

Made in UK

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