

Document:800-27140 Rev.A
11/2024

Safety Notes

Read the instructions carefully and thoroughly before installing the device and putting it into operation. They contain important information on installation, reprogramming and operation.

- The device is a state-of-the-art product. Only use the device:
 - in accordance with regulations,
 - when it has been installed and is functioning correctly,
 - in accordance with technical data.
- The manufacturer is not responsible for damage that is caused by use not in accordance with regulations.
- Installation and programming as well as maintenance and repair work may only be carried out by skilled, authorized personnel.
- De-energize the entire system before soldering and connecting. Carry out soldering work with a temperature-controlled electrically isolated soldering iron.
- Do not use the device in a potentially explosive environment or in rooms where metal or plastic decomposing vapors are emitted.

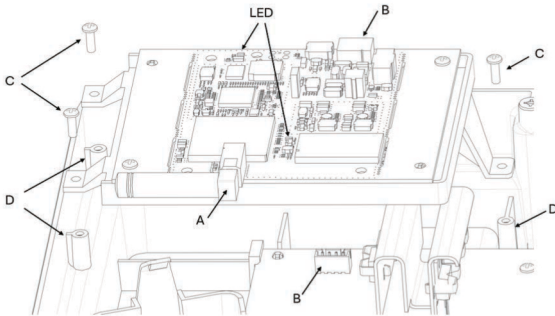
Note: A Galaxy 4G LTE interface module can be connected to the Flex control panel to allow alarm signaling and remote servicing over mobile phone networks. Remote servicing connection via SMS call back, or direct if 4G LTE SIM has static IP address.

Step 1. Installation Instructions

CAUTION:

- Install the control panel with the 4G LTE module at least 1.5 m from any wireless peripheral to avoid interference generated by the 4G LTE.
- Do not install the module in the immediate proximity of a sound source (loudspeaker, TV set, Hi-fi chain etc.)
- Do not connect or disconnect the module with panel powered up to avoid communication trouble.

1. Disconnect the battery and mains power from the control panel.
2. Assemble the antenna provided in the accessory bag to the SMA connector (A). Prefer to assemble the antenna on the direction as below picture shows. In areas where the mobile signal is not fine enough, an external antenna may need, the external antenna can also be assembled to the SMA connector (A) on the 4G LTE module.
3. Plug one end of the connecting cable into the socket (B) on the module, and then plug the other end into the socket on the control panel PCB.



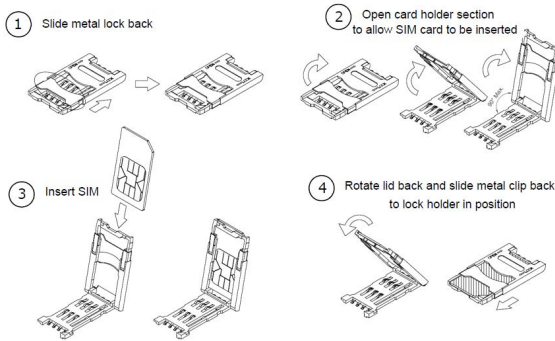
4. Locate the module on the three mounting pillars as shown (D) and secure it in position with the supplied screws (C).
5. Fit a suitable SIM card into the SIM card holder on the top of the module (see SIM cards below).
6. Re-connect the battery and mains power to the control panel.

| LED | Function | Normal Indication | Fault Indication |
|-------------------|--|--------------------------------------|--|
| Communication LED | Communication status of LTE chip | Steady GREEN | NOFF |
| IB2IB2 Status LED | IB2 Communication status of 4G over IB2 bus | Blinking GREEN 0.1s ON 0.9s OFF | Poor: Blinking GREEN - 0.9s ON 0.1s OFF Off line: Blinking GREEN- 0.2s ON 0.2s OFF Not Enrolled: Blinking GREEN- 1.5s ON 1.5s OFF |
| Link LED | Communication status Cell Radio network | Blinking GREEN 1 sec ON 2 sec OFF | Steady GREEN |

Step 2. SIM Cards

Any valid 4G LTE SIM card can be used. We recommend a contract or subscription type for systems with alarm signaling to avoid a situation where credit may run out, resulting in a loss of signaling capability. Use a data enabled SIM card if you intend to use the 4G LTE module for remote servicing. Most service providers can supply this service on contract SIMs and will issue a separate data number. Use this data number for remote servicing when dialing into the panel.

Please see below picture for inserting the SIM card.



Note: Above picture is quoted from the datasheet of SIM5055, whose manufacture is Global Connector Technology (GCT).

Step3. Enrolling

To register the A082 module to the Galaxy Flex alarm panel, navigate to menu 72 in engineering mode ->press ENT ->press ESC in order to start searching for new devices on the bus. This will trigger automatic enrollment of the new module and assign communication address 05 for the LTE module.

Step 4. Programming

Program the module using the **GSM or GPRS** menu in the control panel (option 56).

Please refer to the GalaxyFlex installation manual (Document Number: 800-11184) for communication setup of the module (Menu 56).




Step 5. Characteristics

The following table shows the technical characteristics of the 4G LTE module:

| | |
|---------------------------|--|
| 4G LTE fault detection | Dedicated internal 4G LTE fault code is triggered by the lack of a network |
| Bands | B1, B3, B7, B8, B20, B28 |
| SIM card | Mini (2FF), 25mm x 15mm x 0.76mm |
| Encryption (GPRS/LTE) | 128-bit AES |
| Antenna, Internal | Supplied |
| Service temperature | -10 °C to +55 °C |
| Storage temperature | -20 °C to +70 °C |
| Humidity (relative) | Maximum 93% (No condensation) |
| Nominal Voltage | 15V |
| Power | 1.5 W (GSM) / 1 W (LTE) |
| Quiescent Current | 40mA |
| Alarm Current | 70mA* for 30 seconds (4G Mode) |
| Product weight (packaged) | 200g |
| Dimensions (packaged) | L190mm x W155mm x D45mm |

Note: *Average current during normal alarm transmission.

Symbols and Explanations

| Symbols | Description |
|---|--|
|  | CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA). The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC directives |
|  | The UKCA (UK Conformity Assessed) marking is a new UK product marking that is used for goods being placed on the market in Great Britain (England, Wales, and Scotland). It covers most goods which previously required the CE marking. |
|  | DIRECTIVE 2012/ 19/ EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste electrical and electronic equipment (WEEE), Art. 14, 2- 5) This symbol on our product shows a crossed-out "wheelie-bin" as required by law regarding the Waste of Electrical and Electronic Equipment (WEEE) disposal. This indicates your responsibility to contribute in saving the environment by proper disposal of this Waste i.e. Do not dispose of this product with your other wastes. To know the right disposal mechanism please check the applicable law. |

Compliance

This product is suitable for use in systems designed to comply with EN50131-1, EN 50136-1 and PD6662.

Security Grade – 3

Environmental Class – II

EN 50136-1 (2012) +A1 (2018) - ATS- SP5 (Single Path - 4G/LTE and IP as Primary). ATS- DP4 (Dual Path - IP as Primary and 4G/LTE as Secondary).

NF&A2P - 2 boucliers (référentiel NF324-H58).

Conforme aux normes EN 50136-1 +A1

ATS- SP5 (Single Path - 4G/LTE and IP as Primary) &

ATS- DP4 (Dual Path - IP as Primary and 4G/LTE as Secondary)



IP31 and IK04

A082-00-01 – N° de certificat:122142-61

Organisme de certification :

CNPP Cert.: www.cnpp.com et

AFNOR Cert.: www.marque-nf.com

This product includes software developed by the Open SSL Project for use in the Open SSL Toolkit. (<http://www.openssl.org/>)

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