



## 3G9080/3G9080-EU/3H9080/LE9080 Cellular Alarm Communicator Installation Instructions

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**Important:** Use this manual in conjunction with the PowerSeries Pro Reference Manual. Observe all the safety instructions specified in the manual. Before operation, ensure that the panel is fully assembled and closed.

**Safety information:** All servicing, except backup battery replacement, must be performed by a service person only. Use only authorized accessories with this equipment. Observe and respect all rules imposed by local electrical codes. This manual contains information on limitations regarding product use and function, and on the limitations as to the liability of the manufacturer. Read the entire manual carefully. For warning information, refer to the PowerSeries Pro alarm system Reference Manual. The communicator must be installed by service persons only and used in an environment that provides a maximum pollution degree of 2 and an overvoltages category II in non-hazardous, indoor locations only. Observe these instructions and the instructions specified within the panel manual.

**Model information:** All models are compatible with the control panels HS3032, HS3128, and HS3248. The communicator supports Internet Protocol (IP) transmission of panel and communicator events over HSPA/GPRS or LTE. The communicators are compatible with the following Sur-Gard receivers: SG-System I V1.4+, SG-System II V2.14+, SG-DRL3-IP V2.36+, SG-DRL4-IP V1.29+ and SG-DRL5-IP V1.05+ (required for visual verification support).

### Technical specifications

The following technical specifications apply to all models.

**Input voltage:** 3.4 - 4.2 V, nominal 3.8 V (provided by the host alarm panels HS3032, HS3128, and HS3248).

**Standby current:** 12 - 28 mA at 3.8 V.

**Alarm (transmitting) current:** 750 mA at 3.8 V (max avg).

**Operating temperature:** -10°C to 55°C. UL/ULC has only verified operation for range 0°C to 49°C.

**Relative humidity:** 5% to 93%, noncondensing.

**Mechanical specifications:** 81 x 61 x 11 mm (W x L x H); weight is 25 g.

Model	Market	Operating frequency (MHz)	Typical antenna gain (dBi)
LE9080 - UL/ULC listed	Canada, USA	3G - B5: UL: 824 - 849, DL: 869 - 894 B2: UL: 1850 - 1910, DL: 1930 - 1990 4G - B12: UL: 699 - 716, DL: 729 - 746 B13: UL: 777 - 787, DL: 746 - 756 B5: UL: 824 - 849, DL: 869 - 894 B4: UL: 1710 - 1755, DL: 2110 - 2170 B2: UL: 1850 - 1910, DL: 1930 - 1990	1.3 6.8 1.2 2.2 1.3 4.6 6.8
3G9080 - UL/ULC listed	Argentina	2G - B5: UL: 824 - 849, DL: 869 - 894 B2: UL: 1850 - 1910, DL: 1930 - 1990 3G - B5: UL: 824 - 849, DL: 869 - 894 B2: UL: 1850 - 1910, DL: 1930 - 1990	1.4 6.7 1.4 6.7
3G9080-EU - CE compliant	Europe	2G - B8: UL: 880 - 915, DL: 925 - 960 B3: UL: 1710 - 1785, DL: 1805 - 1880 3G - B8: UL: 880 - 915, DL: 925 - 960 B1: UL: 1920 - 1980, DL: 2110 - 2170	2.0 4.6 2.0 6.7/2.8

### Inserting and removing the SIM card

⚠ Use caution when you handle the SIM card. To avoid damage to the SIM card, ensure that there are no bent or scratched contacts.

To insert and remove the SIM card, complete the following step:

- Insert or remove the SIM card by sliding it in or out of the holder. The notch on the corner of the SIM card must align with the notch on the base of the holder.

### Installing and replacing the communicator

**Note:** Before installing the communicator, confirm with the local service provider that there is an available and active network in the area.

#### Opening the unit

To open the unit, complete the following step:

- Disconnect power from the panel by removing the power cord and battery.

#### Installing the communicator

To install the communicator, complete the following steps.

- On the new communicator, if required, remove the protective metal tab from the 24-pin CON1 header.
- Align the three holes on the communicator module with the plastic pegs on the alarm panel, ensuring the 24-pin connectors are aligned with matching pins on the panel. See Figure 3.
- Press the module carefully onto the alarm panel.
- To attach the antenna place a nylon washer on either side of the hole on the panel and screw the cable into the antenna. See Figures 4 and 5.
- Gently press the main antenna cable connector into the jack labeled JK2 - Main Ant on the PCB. Repeat this step for the diversity antenna, and connect to the jack labeled JK1 - Div Ant on the PCB.
- Apply power to the panel by plugging in the power supply module.

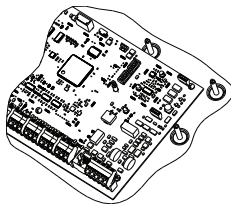


Figure 1: Preparing the panel

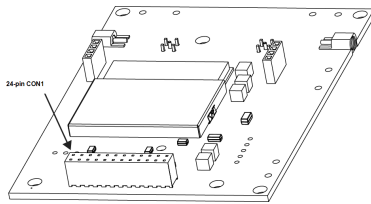
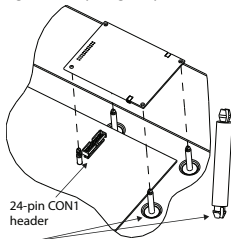


Figure 2: Preparing the communicator



Insert this end of the standoff in the indicated position. The standoff will make an audible click when positioned correctly.

Figure 3: Installing the communicator

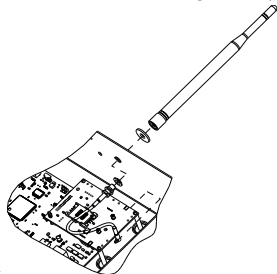


Figure 4: One antenna installation

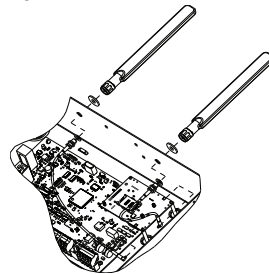


Figure 5: Two antenna installation

### Replacing the communicator

**Note:** For panels with a communicator installed, you can use the foam pad in the unit or the foam pad provided in the standalone cellular communicator kit.

To replace the communicator, complete the following steps.

- Disconnect power from the panel by unplugging the transformer and battery.
- Gently remove the main and diversity antenna cables from the PCB.
- Release the stand-offs and pull up on the communicator to remove it from the header.
- Complete steps 1 - 6 in Installing the Communicator.

### Communicator configuration

For information on how to configure the communicator, refer to the PowerSeries Pro alarm system Reference Manual.

### Placement test

To ensure that the communicator is active with a strong signal connection, place the PowerSeries Pro panel in its intended location and perform the following steps.

- Ensure the SIM card has been activated.
- Using the keypad, enter placement test through installer's programming: [\*][8][Installer Code][850].
- View and record the number of bars showing on the LCD keypad.
- Compare with the number of bars indicated in the CSQ Levels column shown in the following table.
- If 3 or more bars are shown, the location is good and no further action is required.
- If 2 or less bars are shown, the location is poor and the communicator may need to be relocated, or an external antenna extension kit can be used to improve the signal strength.

Signal strength	CSQ level	Signal level (dBm)	Installer action
5 bars	14 and higher	-84 and higher	Location is GOOD.
4 bars	11 to 13	-90 to -85	
3 bars	7 to 10	-98 to -91	
2 bars	5 to 6	-102 to -99	Location is BAD. Not suitable for Cellular operation
1 bar	1 to 4	-108 to -103	
No signal	0	-108.8	Check if Cellular coverage is active in your area.

### Viewing troubles

For information on how to view troubles, refer to the PowerSeries Pro alarm system Reference Manual.

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