

463C CDMA Cellular Communicator

Description

The 463C CDMA Cellular Communicator provides a fully supervised alarm communication path over the CDMA network. The 463C is installed in the panel J6 Interface Card connection or a 461 Interface Adaptor card and powered by the panel so no additional enclosure, power supply or battery back-up is needed.

What is Included

The 463C includes the following:

- One Model 463C
- One Model 381-2 18-inch Coax cable with SMA connector
- One Model 300 4-Wire LX-Bus harness
- One Model 383 Rubber Duck Antenna

Compatibility

The 463C is compatible with the XR100/XR500 Series panels using software Version 211 or higher.

Note: The ACTIVATE CELL prompt will only display if a CDMA modem is installed. To perform the cellular activation process from a keypad, the panel must be in contact with a Verizon owned tower.

Installation Safety

Ground Yourself Before Handling the Panel! To discharge static, touch any grounded metal, such as the enclosure, before touching the panel.



Remove All Power From the Panel! Remove all AC and Battery power from the panel before installing or connecting any modules, cards, or wires to the panel.

Installing the 463C

Align the 463C card 50 pin connector with the J6 connector and press the card onto the connector while applying even pressure to both sides of the board. See Figure 1.



Warning: Care should be taken during installation of the 463C by only applying pressure to the edge of the card. Avoid pressing on components of the card.

Connecting the Antenna

1. Position one of the supplied washers onto the SMA connector and push the threaded end through an enclosure knockout.
2. Position the second washer onto the threaded end extending through the knockout and secure the nut.
3. Attach the included 383C Antenna to the SMA connector. See Figure 1.

As an alternative, the antenna coax can be connected directly to the 463C SMA connector when the coax enters the enclosure via conduit.

LX-Bus™ Expansion Capability

The 463C card also provides a 4-wire LX-Bus™ for the addition of any combination of 100 protection zones and 100 relay outputs. Insert the harness connector into the 4-pin LX-Bus header on the bottom of the 463C Interface Card.

Note: Do not use shielded wire when using the LX-Bus. Do not connect the wires from the 463C to panel terminals or the panel J22 header.

Programming/Activation

Cellular Service is required before using the 463C for signal transmission. The 463C comes ready for activation with SecureCom Wireless, LLC.

1. In Remote Link panel communication programming, select Cellular Network as the Communication Type and select the Activate button. See Figure 2.
 - A. In the Activate SIM/MEID window, enter the MEID number, found on the 463C label.
 - B. Select the rate plan for the 463C. See Figure 3.
 - C. Select the Activate button at the bottom of the window.
2. After the 463C is installed at the site, use a keypad and enter the XR100/XR500 panel's Diagnostics menu (2313).
 - A. Select ACTIVATE CELL by pressing a top row Select Key.

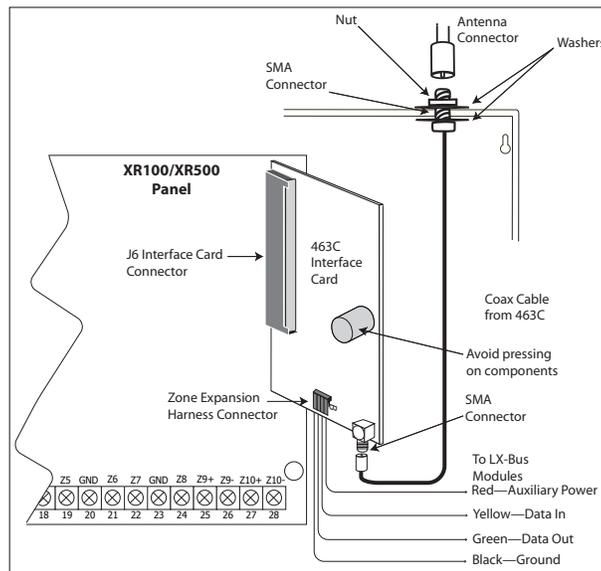


Figure 1: Install and connect the 463C and Antenna



Figure 2: Remote Link Activation

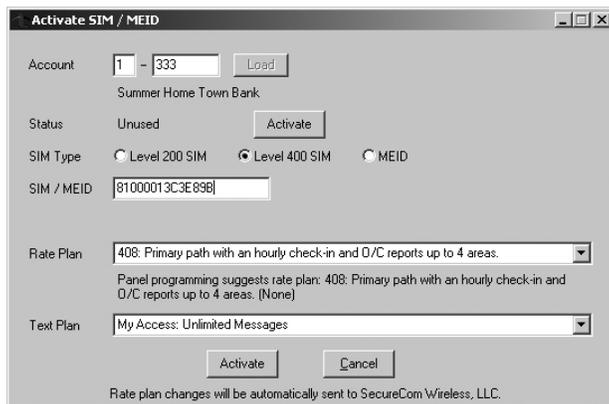


Figure 3: Remote Link Activation



B. Press the button beneath YES on the next screen to activate the device.

Note: The ACTIVATE CELL prompt will only display if a CDMA modem is installed.

Diagnostics

The XR100/XR500 Series panels provide a Diagnostics function to test the Communication integrity and Cellular Signal strength of the 463C. To use Diagnostics, reset the panel, enter the Diagnostics code 2313 (DIAG), and press COMMAND.

Communication Status

Select COMM STATUS from the Diagnostics menu. The XR100/XR500 Series panels test the 463C for the following items:

- 463C Installed
- Cellular Tower Detected
- 463C Registered
- Communication Path Integrity
- 463C Operating
- NOC Success
- 463C Identified

Cellular Signal



Select CELL SIGNAL from the Diagnostics menu. The XR100/XR500 Series panels test and indicates the strength of the signal using a bar display. One bar indicating a weak signal. Seven bars indicating a strong signal. The X's represent the numerical value of the cell signal strength in -dBm.

Wiring Specifications for LX-Bus

When planning an LX-Bus installation, keep in mind the following specifications:

1. DMP recommends using 18 or 22-gauge **unshielded** wire for all keypad and LX-Bus circuits. **Do Not** use twisted pair or shielded wire for LX-Bus and keypad bus data circuits. To maintain auxiliary power integrity when using 22-gauge wire do not exceed 500 feet. When using 18-gauge wire do not exceed 1,000 feet. Install an additional power supply to increase the wire length or add devices.
2. Maximum distance for any one circuit (length of wire) is 2,500 feet regardless of the wire gauge. This distance can be in the form of one long wire run or multiple branches with all wiring totaling no more than 2,500 feet. As wire distance from the panel increases, DC voltage on the wire decreases.
3. Maximum number of devices per 2,500 feet circuit is 40.

Note: Each panel allows a specific number of supervised keypads. Add additional keypads in the unsupervised mode. Refer to the panel installation guide for specific number of supervised keypads allowed.

4. Maximum voltage drop between the panel (or auxiliary power supply) and any device is 2.0 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit. When voltage is too low, the devices cannot operate properly. For additional information refer to the LX-Bus/Keypad Bus Wiring Application Note (LT-2031).

FCC Information

This device complies with Part 15 of the FCC Rules. Affix the included FCC label to the exterior of the panel enclosure in plain sight. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Specifications	Certifications
Primary Power 12 VDC from panel	California State Fire Marshall (CSFM)
Current Draw	Cellular FCC ID: MIVCNN0301
Standby 22mA	New York City (FDNY COA #6167)
Alarm 22mA	ANSI/UL 365 Police Station Connect Burglar Alarm Systems
Accessories	ANSI/UL 1023 Household Burglar Alarm System Units
381-2 18-inch Coax cable with SMA connector	ANSI/UL 1076 Proprietary Burglar Alarm Units & Systems
381-12 12' Coax Extension	ANSI/UL 1610 Central Station Burglar Alarm Units
381-25 25' Coax Extension	ANSI/UL 864 Fire Protective Signaling, 9th Edition
383 Rubber Duck Antenna	ANSI/UL 985 Household Fire Warning System Units
386 Wall Mount Antenna Bracket	
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