

463G Digital Cellular Communicator

Description

The 463G Digital Cellular Communicator provides a fully supervised alarm communication path over the GPRS network. The 463G 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 463G includes the following:

- One Model 463G
- SIM Card (463G only, 463G NOSIM requires SIM card to be provided from alternate carrier)
- 10-inch Coax cable with SMA connector
- 4-Wire LX-Bus harness
- One Model 383 Rubber Duck Antenna
- One Ferrite Core

Compatibility

The 463G is compatible with the XR500, XR500N and XR500E Command Processors using software Version 202 or higher. For ULC listed applications, use software Version 203C or higher.



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 463G

Align the 463G 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.

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 Magnetic Mount Antenna to the SMA connector. See Figure 1.

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

Connecting Panel Power

Before re-applying AC power, attach the included ferrite core inside the enclosure around the AC wires connected to terminals 1 and 2 as shown in Figure 2. Ensure the wire is wrapped around the ferrite core (passes through the core twice) before closing and snapping the two halves of the core together. Then, reconnect all AC and Battery power to the panel.

LX-Bus™ Expansion Capability

The 463G 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 463G Interface Card.

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

Programming/Activation

Cellular Service is required before using the 463G for signal transmission. In Remote Link panel communication programming, select CELL as one of the Communication paths. The 463G comes with a SIM card ready for activation with SecureCom Wireless, LLC. More information is available at www.securecomwireless.com or refer to the Remote Link Guide (LT-0565). Or, use a SIM card provided by the GPRS carrier of your choice. If you are activating the unit with an alternate carrier, order Model 463G NOSIM.

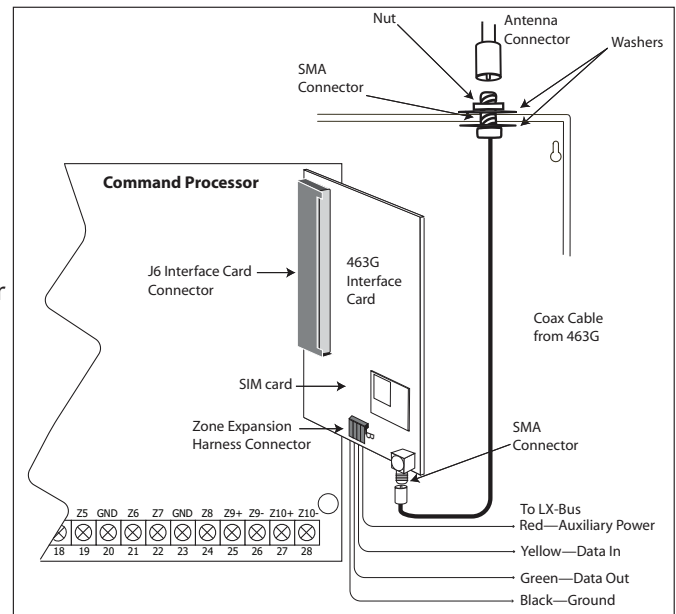


Figure 1: Install and connect the 463G and Antenna

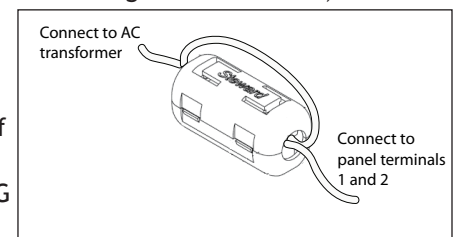


Figure 2: Ferrite Core

Diagnostics

The XR500 Series panels provide a Diagnostics function to test the Communication integrity and Cellular Signal strength of the 463G. 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 XR500 Series panel tests the 463G for the following items.

- 463G Installed
- SIM Card Installed
- SIM Card Registered/Active
- Communication Path
- 463G Operating
- Cellular Tower Detected
- APN (Access Point Name) Correct
- Integrity

Cellular Signal

Select CELL SIGNAL from the Diagnostics menu. The XR500 Series panel tests and indicates the strength of the signal using a bar display. One bar indicating a weak signal. Seven bars indicating a strong signal.

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

Primary Power	12 VDC from panel
Current Draw	
Standby	22mA
Alarm	45mA

Ordering Information

463G	Cellular Communicator
463G NOSIM	Cellular Communicator w/o SIM Card

Accessories

380-400	Level 400 SIM Card (1 supplied with 463G)
381-12	12' Coax Extension
381-25	25' Coax Extension
383	Rubber Duck Antenna
386	Wall Mount Antenna Bracket

Listings and Approvals

FCC Part 15B and CISPR 22	
FCC ID: MIVGSM0308	
Industry Canada ID: 4160A-GSM0308	
PTCRB Certified	
New York City (FDNY COA #6055)	
Underwriters Laboratories (UL) Listed	
ANSI/UL 365	Police Station Connect Burglar Alarm Systems
ANSI/UL 1023	Household Burglar Alarm System Units
ANSI/UL 1076	Proprietary Burglar Alarm Units & Systems
ANSI/UL 1610	Central Station Burglar Alarm Units
ANSI/UL 864	Fire Protective Signaling, 9th Edition
ANSI/UL 985	Household Fire Warning System Units
Underwriters Laboratories Canada (ULC) Listed	
ULC Subject-C1023	Household Burglar
ULC/ORD-C1076	Proprietary Burglar
ULC S304	Central Station Burglar
ULC S545	Household Fire



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