464-263H HSPA+ Cellular Communicator

Description

The 464-263H HSPA+ Cellular Communicator provides a fully supervised alarm communication path over the HSPA+ network for XR100/XR500 Series panels. The 464-263H is installed in the panel enclosure and powered by the panel, so no additional enclosure, power supply or battery back-up is needed.

What is Included

The 464-263H includes the following:

- One Model 464-263H Cellular Communicator
- One Model 381-2, 18-inch Coax cable with SMA connector
- One 4-Wire LX-Bus harness
- One SIM Card
- One Model 383 Rubber Duck Antenna
- One PCB standoff

Compatibility

The 464-263H is compatible with XR100 and XR500 Series control panels when using version 212 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 464-263H

Align the 464-263H 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 2.

Installing the SIM Card

Insert the SIM card into the 263H as pictured in Figure 1.

Connecting the Antenna

1. Position one of the supplied washers onto the 381-2 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 2.
4. Attach the opposite end of the 381-2 Coax to the SMA connector on the 464-263H. See Figure 2.

Note: As an alternative, the antenna coax can be connected directly to the 464-263H SMA connector when the coax enters the enclosure via conduit.

LX-Bus™ Expansion Capability

The 464-263H 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 464-263H Interface Card.

Note: Do not use shielded wire when using the LX-Bus. Do not connect the wires from the 464-263H to panel terminals or the panel J22 header. All devices installed on the 464 LX-Bus must be included in the panel standby battery calculations.

Programming/Activation

Cellular Service is required before using the 464-263H for signal transmission. In Remote Link panel communication programming, select Cellular as one of the Communication types. The module 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 Users Guide (LT-0565). Or, use a SIM card provided by the carrier of your choice. If you are activating the unit with an alternate carrier, program the APN provided by your carrier during panel programming.

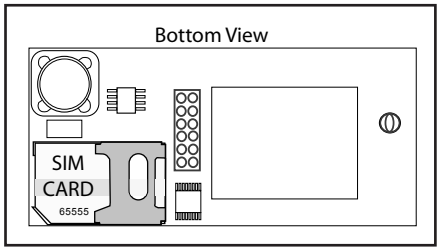

Figure 1: 263H SIM Card Installation

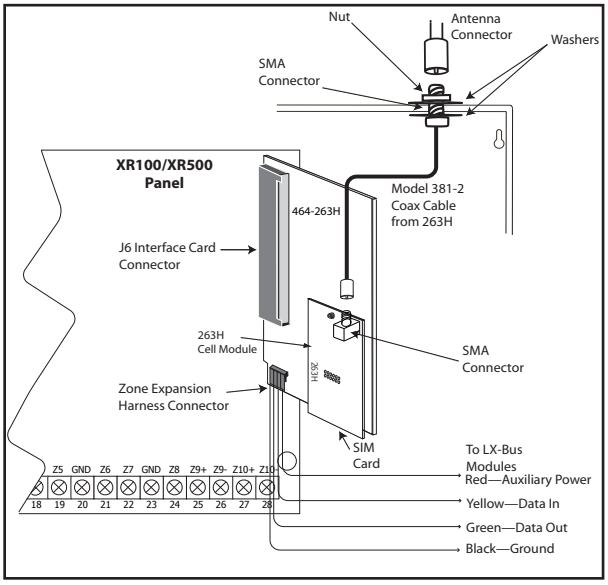

Figure 2: 464-263H HSPA+ Wiring

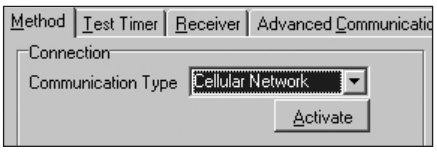

Figure 3: Remote Link Activation

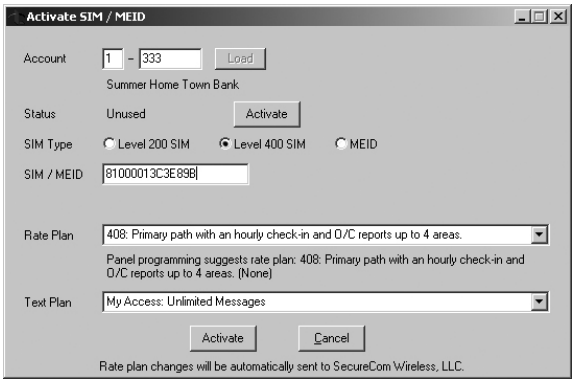

Figure 4: Remote Link Activation

Diagnostics

The XR100/XR500 Series panels provide a Diagnostics function to test the Communication integrity and Cellular Signal strength of the 464-263H. To use Diagnostics, reset the panel, enter the Diagnostics code 2313 (DIAG), and press COMMAND until COMM STATUS displays.

Communication Status

Select COMM STATUS from the Diagnostics menu. The panel tests the 464-263H for the following items.

- Modem Operating
- Identified
- Cellular Tower Detected
- Registered
- NOC Success
- Communication Path Integrity

Cellular Signal

Select CELL SIGNAL from the Diagnostics menu. The panel tests and indicates the strength of the signal using a bar display. One bar indicates a weak signal and seven bars indicate 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:	15mA
Alarm (Nominal):	48mA
Peak (~150mS):	85mA

Accessories

380-400	Level 400 SecureCom SIM Card
380-400R	Level 400 Rogers SIM Card
381-2	18" Coax Cable
381-12	12' Coax Extension
381-25	25' Coax Extension
383	Antenna
386	Wall Mount Antenna Bracket

Ordering Information

464-263H	Cellular Communicator
464-263HCAN	Canadian Cellular Communicator

Certifications

Cellular FCC ID: R17HE910NA

Cellular Industry Canada: 5131A-HE910NA

ANSI/UL 1076	Proprietary Burglar
ANSI/UL 1610	Central Station Burglar
ULC/ORD-C1076	Proprietary Burglar
ULC S304-06	Central Station Burglar

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