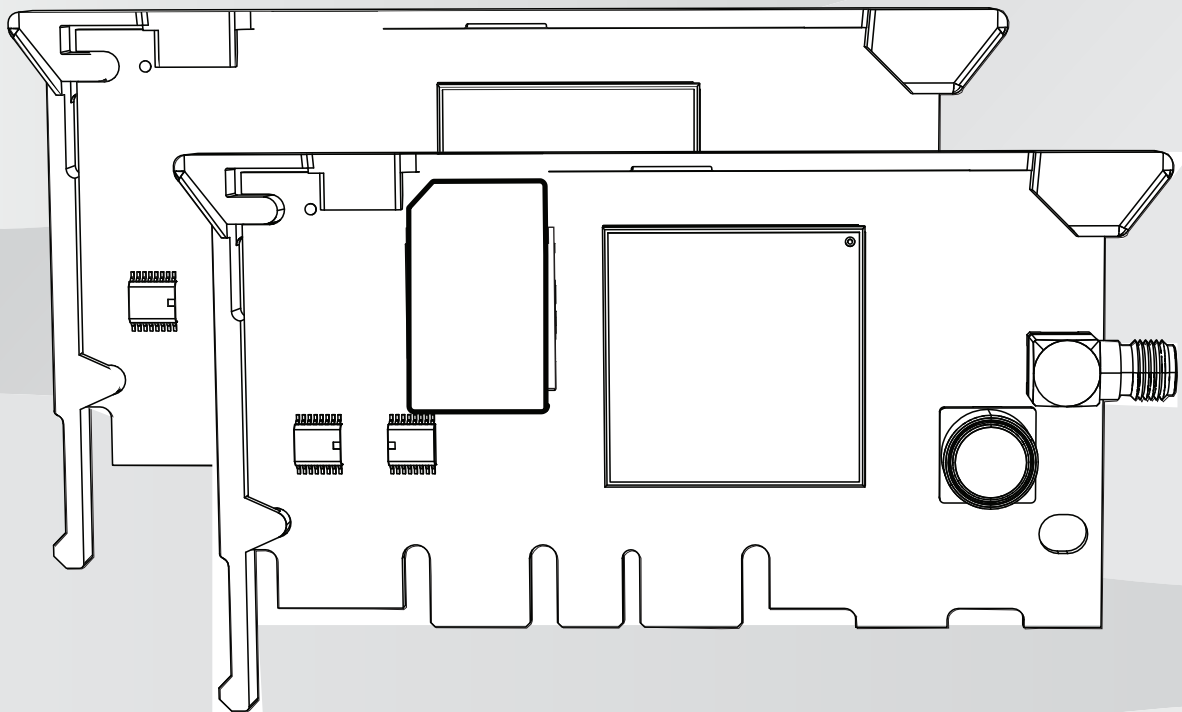




**BOSCH**

# Conettix Cellular Communicators

B44x



en

Guia de Instalação



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# 1 Cellular module introduction

This document contains supplemental information needed to install the Conettix Plug-in Cellular communication modules.

This reference guide contains:

- Component location overview.
- Installation workflows.
- Diagnostic LED descriptions.
- Configuration.
- Specifications.

## 1.1 About documentation

### Copyright

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### Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

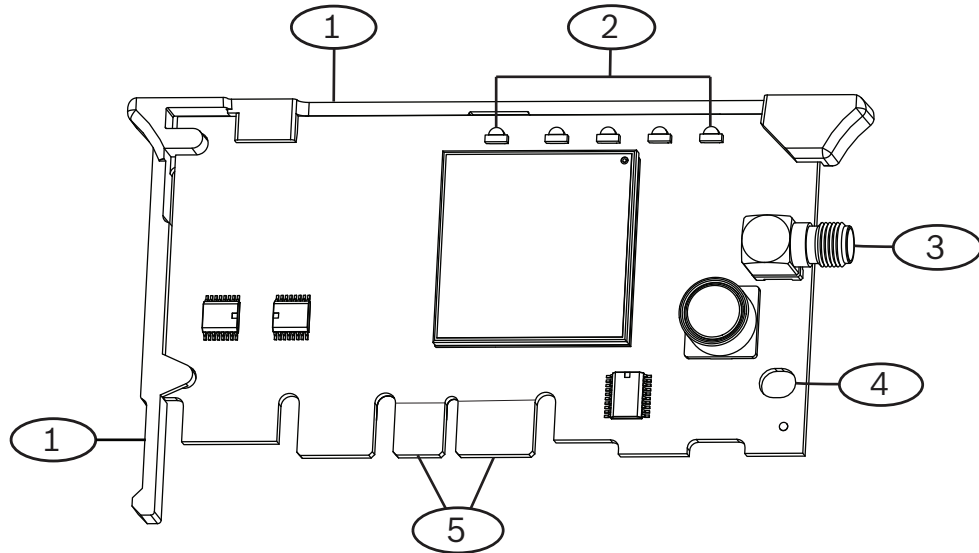
## 1.2 Bosch Security Systems, Inc. product manufacturing dates

Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at <http://www.boschsecurity.com/datecodes/>.

## 2 Component overview

Cellular plug-in communicators provide IP communications over supported cellular networks by directly connecting the communicator into a control panel or into an additional module such as the Conettix Plug-in Communicator Interface or the Conettix Universal Dual Path Communicator modules. Some communicators come with a SIM card holder.

### Communicators without SIM cards



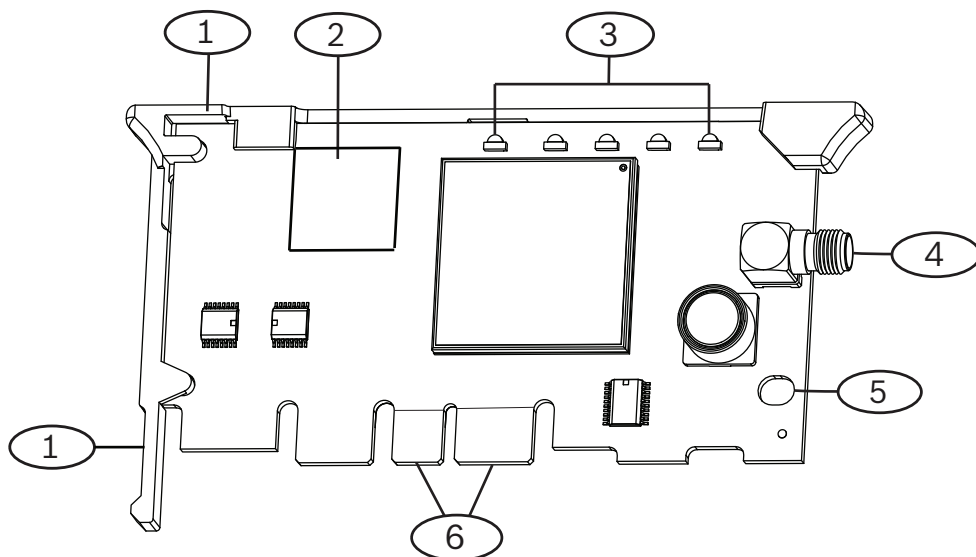
Callout - Description
1 - Module handle and support leg
2 - LEDs
3 - Threaded female SMA antenna connector
4 - Plug-in module retention clip opening
5 - PCB metal contacts



**Notice!**

The B440-C/B441-C communicators must be activated and have a valid cellular plan for proper usage. Refer to *Activating the B440-C/B441-C*, page 12 for details.

### Communicators with SIM cards



Callout - Description
1 - Module handle and support leg
2 - SIM card holder
3 - LEDs
4 - Threaded female SMA antenna connector
5 - Plug-in module retention clip opening
6 - PCM metal contacts

## 3 Installation

When installing the communicator into a supporting module or control panel, refer to the compatible documentation for more information.

**Caution!**

Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

### 3.1 Insert the SIM card

Follow these instructions for SIM card installation.

1. Break away the SIM card from the die-cut.
2. Insert the SIM card into the SIM card holder by sliding it into the card holder.
3. Make sure the gold contact side of the SIM card is against the module.

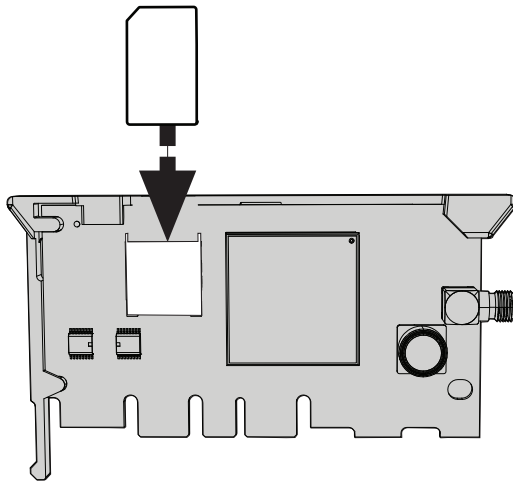


Figure 3.1: Inserting the SIM card

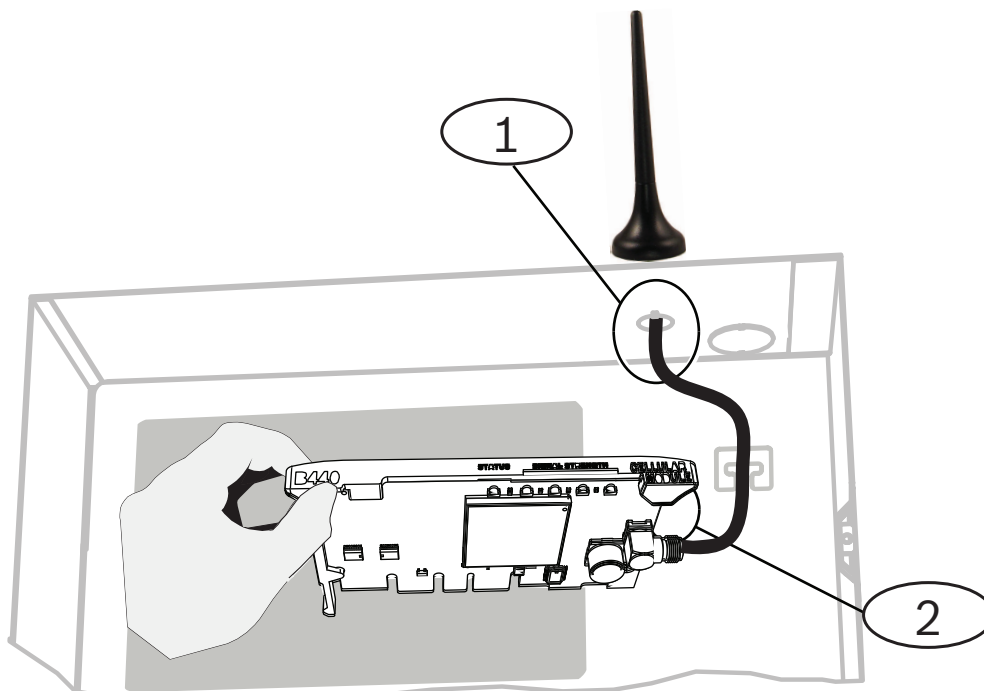
### 3.2 Install the antenna

**Notice!**

EN certification

On the B443, the length of the antenna cable may not exceed 30 m (98 ft) in order to comply with EN certification.

1. Put the magnetic antenna on top of the enclosure, or vertically on another metal surface.
2. Put the antenna cable through a knockout.
3. Connect the antenna cable to the module.
4. Make sure the antenna cable is inside the enclosure.



**Figure 3.2: Installing the antenna**

Callout - Description
1 - Antenna routed through any knockout
2 - Antenna cable connected to the module

### 3.3

## Install the communicator

### Control panel/universal dual path communicator installation

1. Put the support leg into the support hole labeled X. Refer to *Figure 3.3*.
2. Align the PCB metal contacts with the on-board connector.
3. Push the module into place. The retention clip snaps closed and secures the module in place.



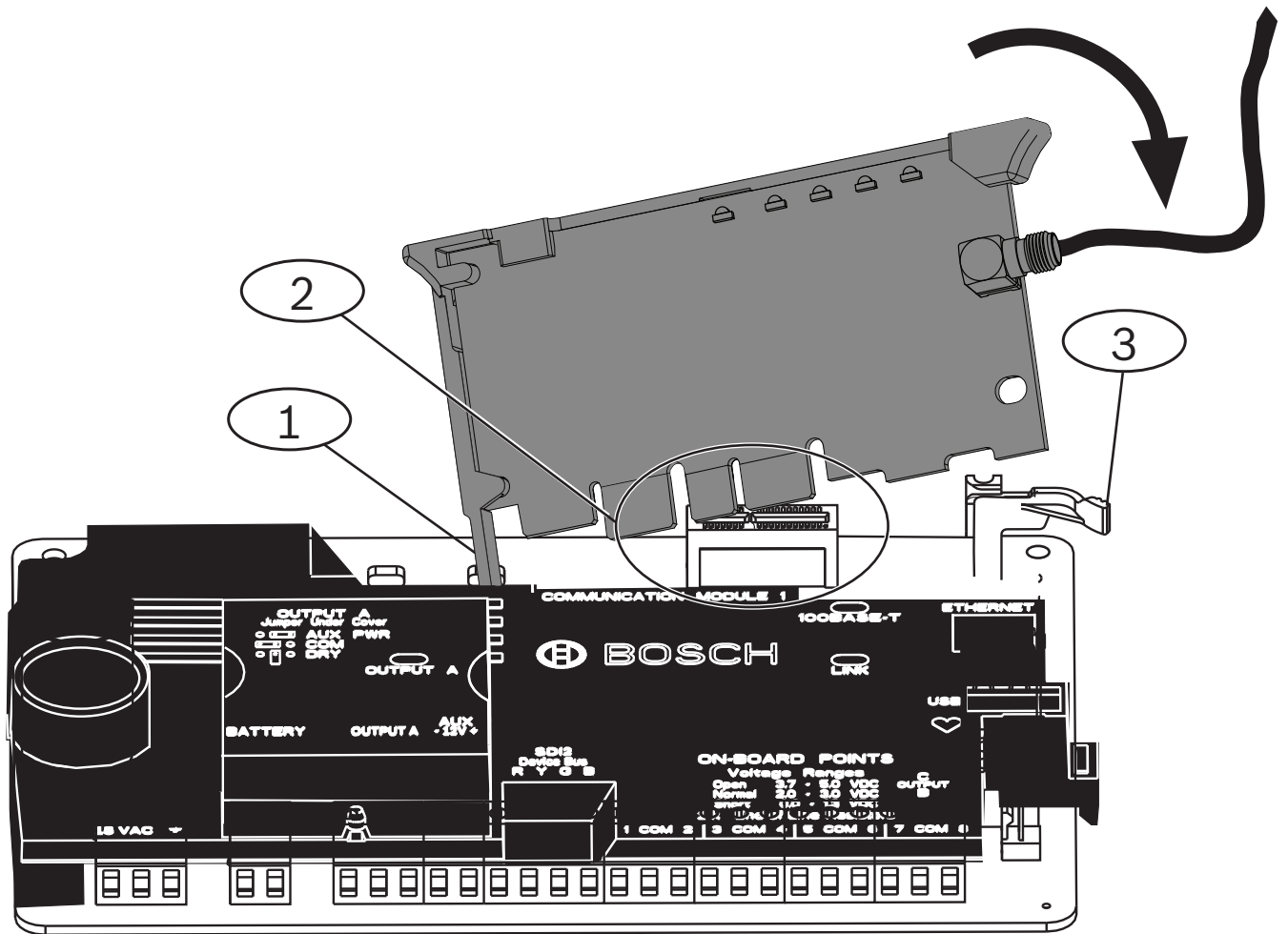


Figure 3.3: Communicator installation (B6512 control panel shown)

Callout - Description
1 - Support leg inserted into the compatible device support holes
2 - PCB metal contacts resting on the on-board connector
3 - Plug-in communicator retention clip

**Plug-in communicator interface installation**

1. Insert the communicator into the slot of the plug-in communicator interface.
2. Push in until you feel it "click" into place.

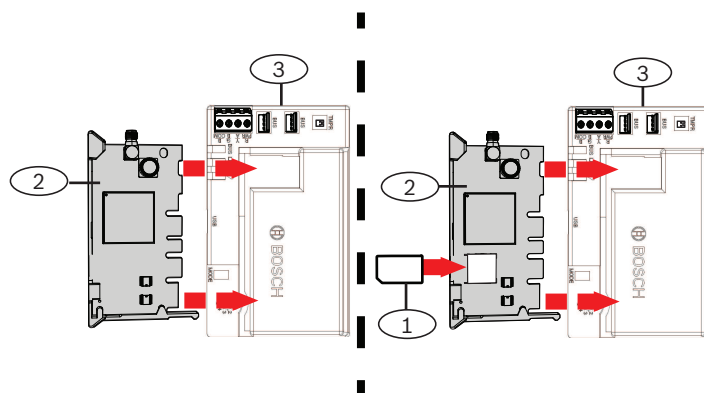


Figure 3.4: Communicator installation (B450 shown)

Callout - Description
1 - SIM card insertion (if applicable)
2 - Communicator
3 - Plug-in communicator interface

### 3.4 **Remove the communicator**

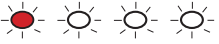
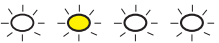


1. Hold the plug-in module retention clip open.
2. Hold the top corners of the module support handle with your other hand.
3. Pull the module out.

## 4 Diagnostic LED descriptions

At power up, all communicator LEDs activate for several seconds, indicating proper insertion. The Signal LEDs then turn off until the module registers on the cellular network. Registering a new module might take up to 2 min.




Check the LED display to ensure a good signal strength level, and adjust the antenna location as required. The signal strength LEDs momentarily turn off to indicate the module has measured and updated the signal strength status.

### Signal strength

Flash pattern	Function
Red 	Indicates an unacceptable signal strength level.
Yellow 	Indicates a marginal signal strength level.
Green (1 light) 	Indicates a good signal strength level.
Green (2 lights) 	Indicates a very good signal strength level.
No LED	Indicates that the module has not acquired a tower yet.

Tab. 4.1: Signal strength LED descriptions

### STATUS

Flash pattern	Function
Flashes once every 1 sec (blue) 	Normal State: Indicates normal operation.
On Steady (blue) 	Communication Error State: Indicates the communicator is unable to communicate on the cellular network.
Off 	LED Trouble State: Indicates communicator is not powered, or some other trouble condition prohibits the communicator from controlling the STATUS LED. (Check for proper installation.)

Tab. 4.2: STATUS LED descriptions

## 5 Configuration

Communicator programming is done through the compatible control panel, plug-in communicator interface, or universal dual path communicator. Refer to the documentation of these devices or remote programming software help for more information. For Bosch Cellular account status and management, use RPS or the online service portal (go to <http://www.conettix.com/Cellular.aspx> and click on the Cellular Portal Login link).

Configure network alarm communication routes and settings in the control panel. Cellular carrier specific settings such as Access Point Name and SIM card security can also be programmed through the control panel or Conettix Plug-in Communicator Interface.

### 5.1 Activating the B440-C/B441-C

The activation process assigns a phone number, IP address, and a data plan to the communicator. Activation occurs using one of three methods:

1. Using the cellular activation tool in RPS.
2. By submitting a support ticket in the Bosch Cellular Portal email at: [installer.services@us.bosch.com](mailto:installer.services@us.bosch.com).
3. Calling Bosch Installer Services (800-289-0096). Provide the MEID number found on the box or on the communicator for activation.

**Notice!**

A valid Bosch Installer Services account is required for activation

## 6 Specifications

Refer to the communicator graphical installation manuals for communicator specification information.







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