

# B444-A Plug-in cell module, AMEC LTE

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ Secure Conettix IP communication to Bosch receivers using the AT&T cellular network, including support for Rogers and Ice wireless services in Canada.
- ▶ Remote programming and monitoring of compatible Bosch panels
- ▶ E-mail notification options
- ▶ Direct configuration from Bosch Remote Programming Software (RPS) eliminates the need for separate set-up
- ▶ Simple LED status information and advanced keypad diagnostics available with easy two-step plug-in installation, troubleshooting, and maintenance

The cellular communicator enables secure two-way IP communication over the AT&T cellular network by plugging into a compatible Bosch control panel or communicator interface.

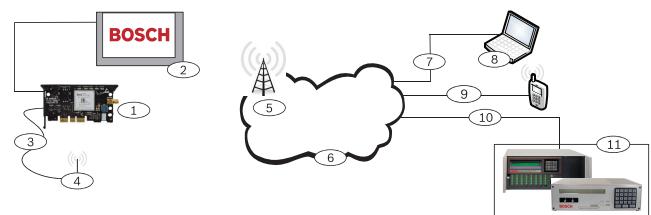
- Alarm reporting to a central station
- Remote control panel programming through RPS with supported control panels
- Remote monitoring and control through a mobile application with supported control panels
- Personal notifications for compatible control panels



**Notice**

Cellular capability requires an Installer Services account and appropriate data plan.

### System overview



Callout — Description	Callout — Description
1 — Cellular communicator	7 — Remote PC's network connection
2 — Compatible control panel/communicator interface	8 — Remote PC running RPS
3 — Antenna cable	9 — Personal SMS notification
4 — Magnetic base antenna	10 — Ethernet connection

5 — Base station on wireless carrier's network	11 — Central monitoring station
6 — IP network cloud	

## Functions

### Conettix IP communication via cellular

In addition to the security provided by the network operator, the cellular communicator uses our Conettix IP protocol that supports:

- Flexible polling intervals
- Resistance to Denial of Service attacks
- 128-bit to 256-bit AES encryption with Cypher Block Chaining
- Anti-replay/anti-substitution keys

### Easy installation, troubleshooting, and maintenance

- No networking expertise required at field site (no firewall or router settings)
- Signal strength and diagnostics available through keypad and Remote Programming Software (RPS)
- Diagnostic LEDs for on-site troubleshooting

### SMA antenna connections

Each module uses a two-port antenna connection and uses two SMA antennas to maximize cellular communications.

LED	Function
Blue (heartbeat)	System status indicator
Red	Unacceptable signal strength
Yellow	Marginal signal strength
1 Green	Good signal strength
2 Green	Very good signal strength

### Remote programming of Bosch control panels

The cellular communicator supports secure RPS programming of compatible Bosch control panels.

### Remote Connect Programming Service support

Remote Connect Programming Service enables a secure control panel connection to RPS using Bosch Cloud services. The service allows a secure TLS connection to a control panel without specific port and router settings and without a static IP or DNS.

### Personal notification and control

The cellular communicator supports the Bosch Remote Security Control mobile application and can be configured for personal notification reports to mobile phones or e-mail addresses.

## Certifications and approvals

Region	Certification
USA	UL CP-01-2010 Control Panel Standard - Features for False Alarm Reduction

Region	Regulatory compliance/quality marks	
USA	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems
	UL	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL	UL 1610 - Central Station Burglar Alarm Units
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 636 - Holdup Alarm Units and Systems
	UL	UL 985 - Household Fire Warning System Units
	UL	UL 1023 - Household Burglar Alarm System Units
	UL	UL 1635 - Standard for Digital Alarm Communicator System Units
	FCC	Part 15 Class B
Canada	ULC	Underwriters Laboratories of Canada S1871-20121210
	ULC	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	ULC	CAN/ULC S303 - Local Burglar Alarm Units and Systems
	ULC	CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm
	ULC	CAN/ULC S545 - Residential Fire Warning System Control Units
	ULC	CAN/ULC S559 - Fire Signal Receiving Centres and Systems
	IC	ICES-003 - Information Technology Equipment (ITE)

## Installation/configuration notes

### Mounting considerations

The module plugs into any compatible control panel, available in a variety of enclosures.

### Wiring considerations

The module connects to any compatible control panel without tools or physical wiring for power. When used with the B450, the B450 is wired to the control panel data bus. The cellular module has a screw on SMA antenna connection.

## Compatibilities

Devices	B9512G/B9512G-E, B8512G/B8512G-E  B6512/B5512/B4512/B3512, B5512E/ B4512E/B3512E control panel with firmware v3.09 or higher (direct insertion)  The module is compatible with most Bosch control panels when used with a B450 Conettix Plug-in Communicator Interface with firmware v3.09 or higher. Refer to the B450 datasheet for complete control panel compatibility listings.  B465 Conettix Universal Dual Path Communicator with firmware v2.09 or higher.  B40-P, B40-MB25, B40-MB50 auxiliary indoor/ outdoor antennas
Cellular	4G LTE - Cat 1 with 3G fallback

## Commercial Fire and Burglary applications

Approved for Commercial Fire/Burglary applications as sole, primary, or secondary communications path when the system is installed to the NFPA-72 specification

## Parts included

Quantity	Component
1	Cellular module
2	Antennas
1	Literature pack

## Technical specifications

### Electrical

Current (operating)	Standby: 35 mA Alarm: 100 mA
Voltage (operating)	12 VDC nominal
Radio	North America LTE CAT 1, Bands 2, 4, 5, 12 North America UMTS / HSPA+, Bands 2, 5

### Environmental

Environment	Environmental Class III - Indoor
Relative humidity	5 - 93% at +32°C (+90°F) non-condensing
Operating temperature	0°C to +49°C (+32°F to +120°F)

### Mechanical

Board dimensions	2 in x 3.68 in x 0.60 in (50 mm x 93.5 mm x 15.25 mm)
Antennas (included)	<ul style="list-style-type: none"> <li>Magnetic base omni-directional</li> <li>3.3 ft (1.0 m) cable with SMA connector</li> </ul>
SIM card	<ul style="list-style-type: none"> <li>AT&amp;T</li> </ul>

## Ordering information

### B444-A Plug-in cell module, AMEC LTE

This communication module provides secure two-way IP communication on North American wireless networks.

Order number **B444-A**

### Accessories

#### B40-MB25 Outdoor multiband antenna, cell, 25ft

Provides wide bandwidth and low angle radiation pattern for indoor/outdoor applications. Supports 2G/3G/4G data communication, Domestic (US) LTE 700 band, Global LTE 2600 band, Domestic (US) Cellular, Global GSM, and WiMAX 2300/2500/2600 bands. Includes a 25 ft (7.6 m) cable, and a mounting bracket.

Order number **B40-MB25**

#### B40-MB50 Outdoor multiband antenna, cell, 50ft

Provides wide bandwidth and low angle radiation pattern for indoor/outdoor applications. Supports 2G/3G/4G data communication, Domestic (US) LTE 700 band, Global LTE 2600 band, Domestic (US) Cellular, Global GSM, and WiMAX 2300/2500/2600 bands. Includes a 50 ft (15.2 m) cable, and a mounting bracket.

Order number **B40-MB50**

#### B40-P Outdoor puck antenna, cell, 6.5ft

Omnidirectional, low profile antenna for metallic indoor/outdoor surface mounting. Supports LTE, and 2G/3G/4G data communication. Operates over 698-960 MHz and 1710-2170 MHz bands.

Order number **B40-P**

### Represented by:

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
emea.securitysystems@bosch.com  
emea.boschsecurity.com

**Germany:**  
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany  
www.boschsecurity.com

**North America:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.us

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia