

B444-A2 Plug-in cell module, AMEC LTE

CONETTIX



- ▶ Secure CONETTIX IP reporting to Bosch receivers using the 4G LTE cellular network in Canada.
- ▶ Remote programming and monitoring of compatible Bosch panels
- ▶ 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

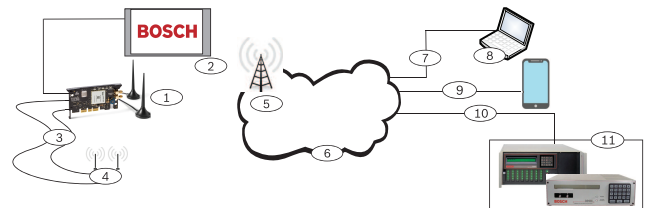
The cellular communicator enables secure two-way IP communication over the 4G LTE cellular network by plugging into a compatible Bosch control panel or communicator interface.

- Alarm reporting to a central station
- Remote control panel programming through Remote Programming Software (RPS)
- Remote monitoring and control through Bosch Security Manager (BSM) and Remote Security Control (RSC) mobile apps
- Control Panel alarms and push notifications to Bosch Security Manager mobile app

i Notice

Cellular capability requires an Installer Services Portal account and appropriate data plan. Contact installer.services@us.bosch.com for more information.

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 cables	9 — Mobile App push notification
4 — Magnetic base antennas	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

Use the cellular communicator with the Bosch Security Manager (BSM) mobile app to connect, control and receive automatic push notifications from your panel systems to your mobile device.

Regulatory information

Region	Regulatory compliance/quality marks	
USA	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)

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	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 (6th edition)
	UL	UL 1023 - Household Burglar Alarm System Units
	UL	UL 1635 - Standard for Digital Alarm Communicator System Units
	CSFM	California State Fire Marshal
	FCC	Part 15 Class B
	FDNY-CoA	000538
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, B465 dual path communicator, or B450 communicator interface. Each supports 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 two screw-on SMA antenna connections.

Compatibilities

Devices	<p>B9512G/B8512G</p> <p>B6512/B5512/B4512/B3512, control panel with firmware v3.13 or higher (direct insertion)</p> <p>The module is compatible with most Bosch control panels when used with a B450 CONETTIX Plug-in Communicator Interface with firmware v3.13 or higher. Refer to the B450 datasheet for complete control panel compatibility listings.</p> <p>B465 CONETTIX Universal Dual Path Communicator with firmware v2.13 or higher.</p> <p>B40-P, B40-MB25, B40-MB50 auxiliary indoor/outdoor antennas</p>
Cellular	<p>4G LTE - Cat 1</p> <p>3G fall back on UMTS/HSPA+</p>

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 with SIM card
2	Antennas
1	Literature pack

Technical specifications

Mechanical

Dimensions (H x W x D) (in)	2 in x 3.68 in x 0.60 in
Dimensions (H x W x D) (mm)	50 mm x 93.5 mm x 15.25 mm
Antennas (included)	Magnetic base omni-directional 3.3 ft (1.0 m) cable with SMA connector
SIM card	4 FF

Environmental

Operating temperature (°F)	32 °F – 120 °F
Operating temperature (°C)	0 °C – 49 °C
Operating relative humidity, non-condensing (%)	5% – 93%
Environment	Environmental Class III - Indoor

Electrical

Operating voltage (VDC)	12 VDC nominal
Operating current	Standby: 40 mA Alarm: 150 mA
Radio	<p>North America LTE Bands B2, B4, B5, B7, B12, B13, B14</p> <p>North America fall back to 3G UMTS / HSPA+, Bands B2, B5, B8, B19</p>

Ordering information

B444-A2 Plug-in cell module, AMEC LTE

This communication module provides secure two-way IP communication on North American wireless networks. Only available in Canada.

Order number **B444-A2 | F.01U.406.039**

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 | F.01U.326.560**

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 | F.01U.326.559**

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 | F.01U.326.561**

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
www.boschsecurity.com/xc/en/contact/
www.boschsecurity.com

Germany:

Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Tel.: +49 (0)89 6290 0
Fax: +49 (0)89 6290 1020
de.securitysystems@bosch.com
www.boschsecurity.com

North America:

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

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
www.boschsecurity.com/xc/en/contact/
www.boschsecurity.com