

B444-V2 Plug-in cell module, VZW LTE

CONETTIX



- ▶ Secure CONETTIX IP communication from compatible Bosch panels to Bosch receivers using Verizon LTE cellular network
- ▶ 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

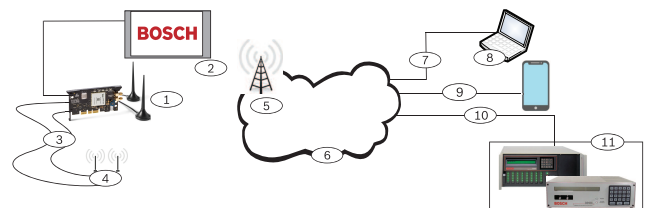
The cellular communicator enables secure two-way IP communication over the cellular network by plugging into a compatible control panel or communicator interface.

- 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
- Personal notification using text messages

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	Certification
USA	Verizon Open Development Certified

Region	Certification
	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 (10th edition)
	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

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	B9512G/B8512G B6512/B5512/B4512/B3512, control panel with firmware v3.13 or higher (direct insertion)
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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.

B465 CONETTIX Universal Dual Path Communicator with firmware v2.13 or higher.

B40-P, B40-MB25, B40-MB50 auxiliary indoor/outdoor antennas

Cellular	4G LTE - Cat 1
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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

Dimension (H x W x D) (in)	2 in x 3.68 in x 0.60 in
Dimension (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	Verizon, 4FF

Environmental

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

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Environment	Environmental Class III - Indoor
Electrical	
Operating voltage (VDC)	12 VDC nominal
Operating current	Standby: 35 mA Alarm: 100 mA
Radio	Verizon LTE CAT 1, Bands B4 and B13

Ordering information

B444-V2 Plug-in cell module, VZW LTE

This communication module provides secure two-way IP communication on the Verizon Wireless network.
Order number **B444-V2 | F.01U.406.040**

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**