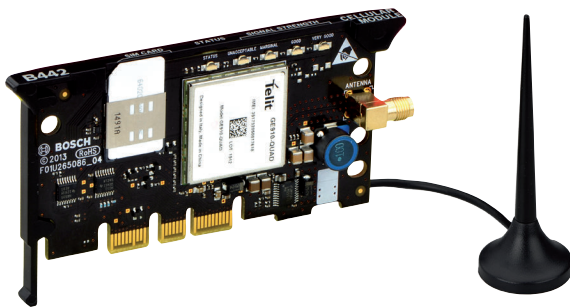


# B442 Plug-in cellular module, GPRS

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**BOSCH**  
Invented for life



- ▶ Remote programming and monitoring of compatible Bosch control panels
- ▶ Personal SMS message and e-mail notification options with supported control panels

The B442 provides IP communication over a (GPRS) cellular network by plugging into a compatible BOSCH control panel or B450 Conettix Plug-in Communicator Interface. Typical applications are:

- Alarm reporting to a central station
- Remote control panel programming through Remote Programming Software with supported control panels
- Remote monitoring and control through a mobile application with supported control panels
- Personal notification using SMS for compatible control panels

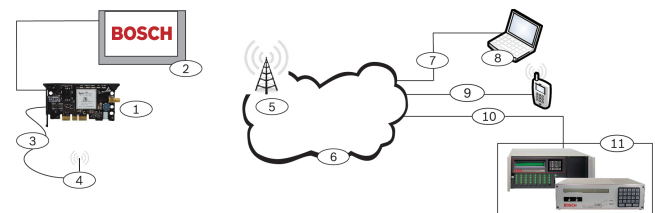
The B442 is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, 128-bit to 256-bit AES encryption, and anti-substitution features make B442 especially suited for use in high security and fire monitoring applications.



**Notice**

Cellular capability requires an appropriate SIM card and data plan.

### System overview



Callout — Description	Callout — Description
1 — B442 Conettix Plug-in Cellular Communicator	7 — Remote PC's network connection
2 — Compatible control panel	8 — Remote PC running Remote Programming Software
3 — Antenna cable	9 — Personal SMS notification with supported control panels
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

The B442 uses Conettix IP protocol, SIA DC-09 UDP, and CSV-IP on supported control panels that support:

- Flexible polling intervals
- Resistance to Denial of Service attacks
- Anti-replay/anti-substitution keys using Conettix

### Easy Installation, troubleshooting, and maintenance

- No networking expertise required at field site (no firewall or router settings)
- No computer or special tools required for installation and troubleshooting
- Diagnostic LEDs for on-site troubleshooting

LED	Function
Blue (STATUS)	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 B442 supports secure, remote programming of compatible Bosch control panels.

### Personal notification and control

On supported control panels, the B442 supports the Bosch Remote Security Control mobile application and can be configured for SMS personal notification reports to mobile phones.

## Certifications and approvals

Region	Certification
USA	Open Development Certified
Europe	CE EN50130-4, EN61000-6-3, EN60950

Region	Certification
Europe	CE EMC, LVD, RoHS
USA	UL UL 365 - Police Station Connected Burglar Alarm Units
	UL UL 636 - Holdup Alarm Units and Systems
	UL UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems
	UL UL 985 - Household Fire Warning System Units
	UL UL 1023 - Household Burglar Alarm System Units
UL UL 1076 - Proprietary Burglar Alarm Units and Systems	
UL UL 1610 - Central Station Burglar Alarm Units	

Region	Certification
	FCC Part 15 Class B
Canada	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 ULC-ORD C1023 - Household Burglar Alarm System Units
ULC ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems	
IC ICES-003 - Information Technology Equipment (ITE)	
Brazil	ANATEL 1338-14-1855

## 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 Conettix Plug-in Communicator Interface, the B450 is wired to the control panel data bus. The cellular module has a screw on SMA antenna connection.

### Cellular service considerations

The module is shipped pre-activated for Bosch Cellular service on the Verizon cellular network. A valid service contract is required prior to ordering.

### Compatibilities

Control panels	B9512G/B9512G-E, B8512G/B8512G-E B6512 B6512/B5512/B4512/B3512, B5512E/B4512E/B3512E control panel with firmware v2.03 or higher (direct insertion) The B442 is compatible with most Bosch control panels when used with a B450 Conettix Plug-in Communicator Interface. Refer to the B450 datasheet for complete control panel compatibility listings.
SIM card	3V/1.8V SIM (compliant with GSM 11.12 recommendation)
Cellular	4 Bands GPRS: 850/900/1800/1900 MHz

### Cellular technology compatibility

Device	Cellular networks			
	2G (CDMA)	3G (CDMA)	GPRS (GSM)	HSPA+ (GSM)
B440*	X	X		
B441*	X			

Device	Cellular networks			
	2G (CDMA)	3G (CDMA)	GPRS (GSM)	HSPA+ (GSM)
B442 *			X	
B443 *			X	X

\*Check for availability in your region.

### Parts included

Quantity	Component
1	B442 Conettix Plug-in GPRS Cellular Communicator
1	Antenna
1	Literature pack

### Technical specifications

#### Electrical

Current (operating)	Standby: 35 mA Alarm: 150 mA
Voltage (operating)	12 VDC nominal

#### Environmental

Environment	Environmental Class III - Indoor
Relative humidity	5 – 93% at +32°C (+90°F) non-condensing
Operating temperature	-10°C to +55°C (+14°F to +131°F)

#### Mechanical

Board Dimensions	50 mm x 93.5 mm x 15.25 mm (2 in x 3.68 in x 0.60 in)
Antenna (included)	<ul style="list-style-type: none"> <li>Magnetic base omni-directional</li> <li>2.5 m (8.2 ft) cable with SMA connector</li> </ul>
SIM card	<ul style="list-style-type: none"> <li>3V/1.8V SIM (compliant with GSM 11.12 recommendation)</li> </ul>

### Ordering information

#### Plug-in cellular module, GPRS

Multi-function cellular communicator that provides IP communication over a (GPRS) cellular network  
Order number **B442**

#### Represented by:

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