B442 Plug-in cellular module, GPRS

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- ► 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

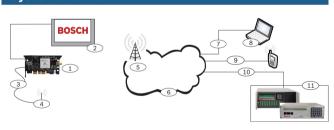
The B442 is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, 128-bit to 256-bit AES encryption, and anti-substitution features make B442 especially suited for use in high security and fire monitoring applications.



Notice

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

System overview



Callout — Description	Callout — Description
1 — B442	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	Regulatory compliance/quality marks		
Europe	CE	EMC, LVD, RoHS	
Belgium	INCERT	ANPI-ID-0004-0001 ANPI- ID-0004-0001-2	
USA	UL	UL 365 - Police Station Connected Burglar Alarm Units	
	UL	UL 636 - Holdup Alarm Units and Systems	
	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	
	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	

Region	Regulat	ory compliance/quality marks
	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
	ULC	Underwriters Laboratories of Canada S1871-20121210
	IC	ICES-003 - Information Technology Equipment (ITE)
Brazil	ANATEL	01338-14-01855

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.

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)	4G (LTE)
B440/ B440- C*	X	X			
B441/ B441- C*	Х				

Device	Cellular networks				
	2G (CDMA)	3G (CDMA)	GPRS (GSM)	HSPA+ (GSM)	4G (LTE)
B442*			Χ		
B443*			Х	Х	
B444*					Χ

^{*}Check for availability in your region.

Parts included

Quant ity	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
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)	Magnetic base omni-directional2.5 m (8.2 ft) cable with SMA connector
SIM card	• 3V/1.8V SIM (compliant with GSM 11.12 recommendation)

Environmental

Operating temperature	-10°C to +55°C (+14°F to +131°F)
Relative humidity	5 - 93% at +32°C (+90°F) non-condensing
Environmental class	III
Usage	Indoor
US certification	Open Development Certified
CE certification	EN50130-4, EN61000-6-3, EN60950

Ordering information

B442 Plug-in cellular module, GPRS

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

Services

EWE-DIACOM-IW 12mths wrty ext dialler and communicator

12 months warranty extension Order number EWE-DIACOM-IW

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