

# B443 Conettix Plug-in HSPA+ Cellular Communicator

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ Remote programming and monitoring of compatible Bosch control panels
- ▶ Configured directly from Bosch Remote Programming Software eliminating the need for separate configuration

The B443 provides 3G/4G IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network by plugging into any 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

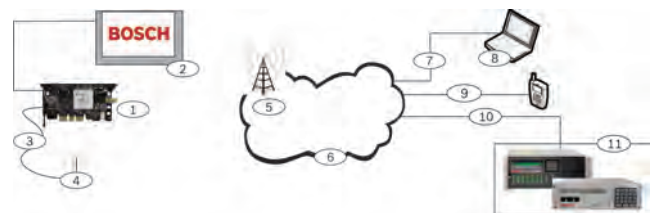
The B443 is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, 128-bit to 256-bit AES encryption, and anti-substitution features make B443 desirable for high security and fire monitoring applications.



**Notice**

Cellular capability requires an appropriate SIM card and data plan.

### System overview



Callout — Description	Callout — Description
1 — B443 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
4 — Magnetic base antenna	10 — Ethernet connection
5 — Base station on wireless carrier's network	11 — Central monitoring station
6 — IP network cloud	

## Functions

### IP communication via Cellular

The B443 uses Conettix IP protocol, SIA DC-09 UDP, and CVS-IP on supported control panels that supports:

- 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 B443 supports secure remote programming of compatible Bosch control panels.

### Personal notification and control

On supported control panels, the B443 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	Verizon	Open Development Certified
Canada	Rogers	Certified
Europe	CE	EN50130-4, EN61000-6-3, EN60950
North America	PTCRB	Certified

Region	Certification	
Europe	CE	2014/30/EU EMC Directive (EMC); 2014/35/EU Low-Voltage Directive (LVD); 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment (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

Region	Certification	
USA	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
	CSFM	see our website
	FCC	Part 15 Class B
	FDNY-CoA	6173
	FDNY-CoA	6174
	FDNY-CoA	6196
	Canada	ULC
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
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)	

## 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. GPRS/EDGE/UMTS/HSPA+ required.

### 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 B443 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.
Cellular	4 Bands GPRS: 850/900/1800/1900 MHz 5 Bands: UMTS/HSPA: 800/850/900/ AWS1700/1900/2100 MHz

### Cellular technology compatibility

Device	Cellular networks			
	2G (CDMA)	3G (CDMA)	GPRS (GSM)	HSPA+ (GSM)
B440 *	X	X		
B441 *	X			
B442 *			X	
B443 *			X	X

\*Check for availability in your region.

### Parts included

Quantity	Component
1	B443 Conettix Plug-in 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

**B443 Conettix Plug-in HSPA+ Cellular Communicator**  
Multi-function 3G/4G cellular communicator providing IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network  
Order number **B443**

#### Accessories

##### ATT SIM Card

Contains one AT&T (US) wireless network SIM card for the B443 Conettix Plug-in HSPA+ Cellular Communicator.

Order number **SIM-HSPA-ATT**

##### T-Mobile SIM Card

Contains one T-Mobile (US) wireless network SIM card compatible with the B443 Conettix Plug-in HSPA+ Cellular Communicator.

Order number **ITS-SIM-TMO**

##### B443 Plug-in HSPA+ Communicator with AT&T SIM

This kit contains one B443 communicator and one AT&T SIM card.

Order number **B443-ATT**

**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

**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