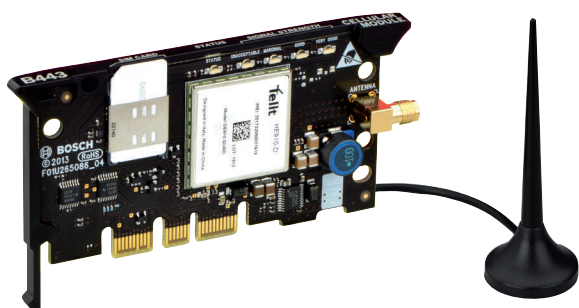# B443 Conettix Plug-in HSPA+ Cellular Communicator

www.boschsecurity.com

BOSCH
Invented for life

* SIM card shown, but not included

▶ Secure Conettix IP alarm communication for Latin America and Canada

▶ Remote programming and monitoring of compatible Bosch control panels

▶ Personal SMS message and e-mail notification options

▶ Configured directly from Bosch Remote Programming Software eliminating the need for separate configuration

The B443 provides 3G/4G IP communication over a GSM/GPRS/EDGE/UMTS/HSPA+ cellular network by plugging into a B Series 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
- Remote monitoring and control through a mobile application
- Personal notification using SMS

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.
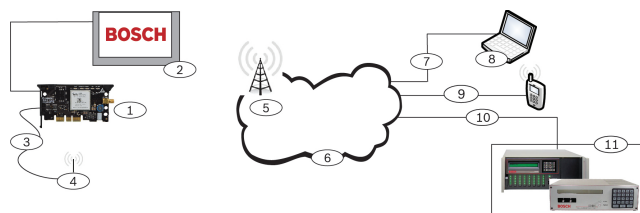
ℹ️ **Notice**
Cellular capability requires an appropriate SIM card and data plan.

System overview

Callout — Description	Callout — Description
1 — B443 Conettix Plug-in HSPA + Cellular Communicator	7 — Remote PC's network connection
2 — Compatible control panel	8 — Remote PC running RPS
3 — Antenna cable	9 — Personal SMS notification
4 — Magnetic base antenna	10 — Ethernet connection
5 — Base station on wireless carrier's network	11 — Central montoring station
6 — IP network cloud	

Functions

Conettix IP communication via Cellular

In addition to the security provided by the network operator, the B443 uses our Conettix IP protocol that supports:

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

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
- Manage service plans and settings through RPS (Bosch Cellular service only)
- 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

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	Agency	Certification
US	FCC	FCC, Part 15 Class B Radiated/Conducted Emissions
	UL	UL 365 - Police Station Connected Burglar Alarm Units and Systems
		UL 636 - Holdup Alarm Units and Systems
		UL 864 – Control Units and Accessories for Fire Alarm Systems
		UL 985 - Household Fire Warning System Units
		UL 1023 - Household Burglar-Alarm System Units
		UL 1076 - Proprietary Burglar Alarm Units and Systems
		UL 1610 – Central Station Burglar Alarm Units
Canada	ULC	ULC C1023 - Household Burglar-Alarm System Units
		ULC C1076 - Proprietary Burglar Alarm Units and Systems
		ULC S303 – Local Burglar Alarm Units and Systems
		ULC S304 – Central and Monitoring Station Burglar Alarm Units
		ULC S545 – Residential Fire Warning System Control Units
	IC	ICES-003
	Rogers	Certified
North America	PTCRB	Certified
Europe	CE	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	FDNY-CoA	#6174 UL 864 9th Edition
	FDNY-CoA	#6173

Installation/configuration notes

Mounting considerations

The cellular communicator plugs directly into any B Series control panel via the on-board plug-in connection, or other compatible control panels via a B450 Conettix Plug-in Communicator Interface.

Wiring considerations

The cellular communicator connects to the B Series 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 SDI2, SDI, or option bus control panel.
The antenna is attached to the module via the threaded SMA connector.

Cellular service considerations

The B443 requires an active cellular service on a GSM/GPRS/EDGE/UMTS/HSPA+ cellular network.

Parts included

Quantity	Component
1	B443 Conettix Plug-in HSPA+ 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℃ (+90℉) non-condensing
Operating temperature	-10℃ to +55℃ (+14℉ to +131℉)

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-directional • 2.5 m (8.2 ft) cable with SMA connector
SIM card	• 3V/1.8V SIM (compliant with GSM 11.12 recommendation)

Compatibilities

Control panels	B5512/B5512E/B4512/B4512E/B3512/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 GSM/GPRS: 850/900/1800/1900 MHz 5 Bands: UMTS/HSPA: 800/850/900/AWS1700/1900/2100 MHz

Ordering information

B443 Conettix Plug-in HSPA+ Cellular Communicator
Multi-function 3G/4G cellular communicator providing IP communication over a GSM/GPRS/EDGE/UMTS/HSPA+ cellular network. For use in Latin America and Canada.
Order number **B443**