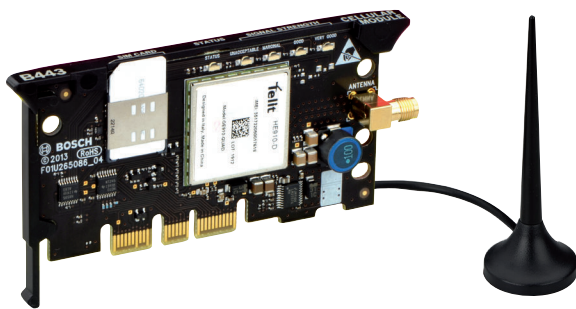


B443 Plug-in Cellular, HSPA+ (3G+)

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

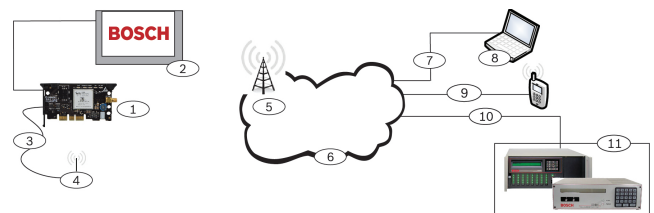
The B443 is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, 128-bit to 256-bit AES encryption, and anti-substitution features make B443 desirable for high security and fire monitoring applications.



Notice

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

System overview



Callout — Description	Callout — Description
1 — B443	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	Regulatory compliance/quality marks	
Europe	CE	EMC, LVD, R&TTE, RoHS B443
	EN5013 1	EN-ST-000245 EN-ST-000245_B450_B450-M_442_443_2021_04_25
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
	CSFM	see www.boschsecurity.com (the Bosch website)

Region	Regulatory compliance/quality marks	
	FCC	Part 15 Class B
	FDNY-CoA	6307 B465_NYC_CoA_6307
	FDNY-CoA	6173
	FDNY-CoA	6286 D7412GV4 D9412GV4 NYC COA 6286 2018-2021
	FDNY-CoA	6196
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	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
	ULC	S1871-20121210
	IC	ICES-003 - Information Technology Equipment (ITE)
Singapore	iDA	

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. 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)	4G (LTE)
B440/ B440- C*	X	X			
B441/ B441- C*	X				
B442*			X		
B443*			X	X	
B444*					X

*Check for availability in your region.

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	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

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"> Magnetic base omni-directional 2.5 m (8.2 ft) cable with SMA connector
SIM card	<ul style="list-style-type: none"> 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
Canada certification	Rogers certified
North America certification	PTCRB certified
CE certification	EN50130-4, EN61000-6-3, EN60950

Ordering information

B443 Plug-in Cellular, HSPA+ (3G+)

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

Accessories

SIM-HSPA-ATT SIM card, AT&T US

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

ITS-SIM-TMO SIM card, T-Mobile US

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-ATT Plug-in HSPA with AT&T SIM

This kit contains one B443 communicator and one AT&T SIM card.
Order number **B443-ATT**

B443-TMO HSPA+ PLUG-IN W/ TMO SIM

This kit contains one B443 communicator and one T-Mobile SIM card.
Order number **B443-TMO**

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