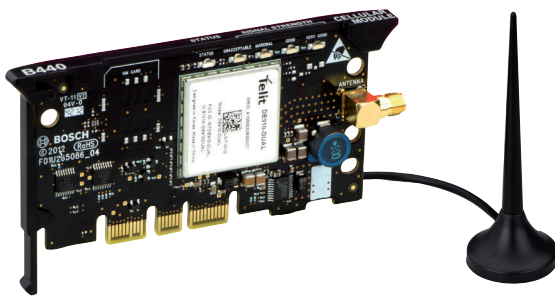


# B440-C Conettix Plug-in Cellular Communicator

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Invented for life



- ▶ Secure Conettix IP communication from compatible Bosch panels to Bosch receivers using Verizon 3G EVDO/CDMA
- ▶ Remote programming and monitoring of compatible Bosch panels
- ▶ Personal SMS message and e-mail notification options
- ▶ Direct configuration from Bosch Remote Programming Software (RPS), eliminating the need for separate configuration
- ▶ Simple LED status information and advanced keypad diagnostics available

The cellular communicator enables 3G EVDO and CDMA secure two-way IP communication over the Verizon cellular networks. Typical applications are:

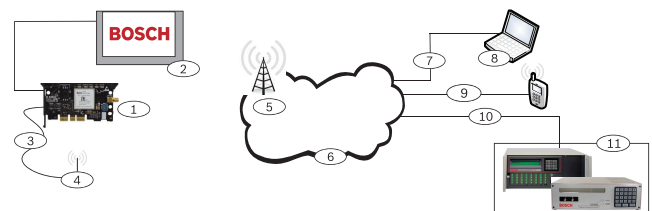
- Alarm reporting to a central station
- Remote panel programming through Remote Programming Software
- Remote monitoring and control through a mobile application
- Personal notification using SMS

The cellular communicator 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 cellular communicator especially suited for use in high security and fire monitoring applications.

Developed for the military, CDMA technology offers long service life with resistance to hacking and jamming. The cellular communicator's dual technology radio uses high speed 3G EVDO when available or switches to CDMA if required.

**Note:** Cellular capability requires an appropriate data plan from Bosch.

## System overview



Callout — Description	Callout — Description
1 — 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 monitoring station
6 — IP network cloud	

### Functions

#### Conettix IP communication via Cellular

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

- Flexible polling intervals
- Resistance to Denial of Service attacks
- 128-bit to 256-bit AES encryption with Cypher Block Chaining
- Anti-replay/anti-substitution keys

#### Easy Installation, troubleshooting, and maintenance

- No networking expertise required at field site (no firewall or router settings)
- No PC or special tools required for installation and troubleshooting
- Service plans and settings managed through RPS
- Diagnostic LEDs for on-site troubleshooting

LED	Function
Blue (heartbeat)	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 cellular communicator supports secure RPS programming of compatible Bosch control panels.

#### Personal notification and control

The cellular communicator supports the Bosch Remote Security Control mobile application and can be configured for SMS personal notification reports to mobile phones or e-mail addresses.

### Certifications and approvals

Region	Certification
USA	Verizon Open Development Certified

Region	Certification
USA	UL 365 - Police Station Connected Burglar Alarm Units
	UL 636 - Holdup Alarm Units and Systems
	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems
	UL 985 - Household Fire Warning System Units
	UL 1023 - Household Burglar Alarm System Units

Region	Certification
	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

### 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 B440 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	EVDO rev A CDMA2000 1xRTT

### Cellular technology compatibility

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

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

\*Check for availability in your region.

### Parts included

Quantity	Component
1	Cellular module
1	Antenna
1	Literature pack

### Technical specifications

#### Electrical

Current (operating)	Standby: 35 mA Alarm: 150 mA
Voltage (operating)	12 VDC nominal
Radio	Verizon CDMA dual band radio 850 MHz and 1900 MHz

#### 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	2 in x 3.68 in x 0.60 in (50 mm x 93.5 mm x 15.25 mm)
Antenna (included)	<ul style="list-style-type: none"> <li>Magnetic base omni-directional</li> <li>8.2 ft (2.5 m) cable with SMA connector</li> </ul>

### Ordering information

#### B440-C Conettix Plug-in Cellular Communicator

Dual technology 3G EVDO/CDMA cellular communicator for secure two-way IP communication on the Verizon Wireless network. Activate the module by emailing at: [installer.services@us.bosch.com](mailto:installer.services@us.bosch.com), or by calling Bosch Installer Services (800-289-0096). Order number **B440-C**

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