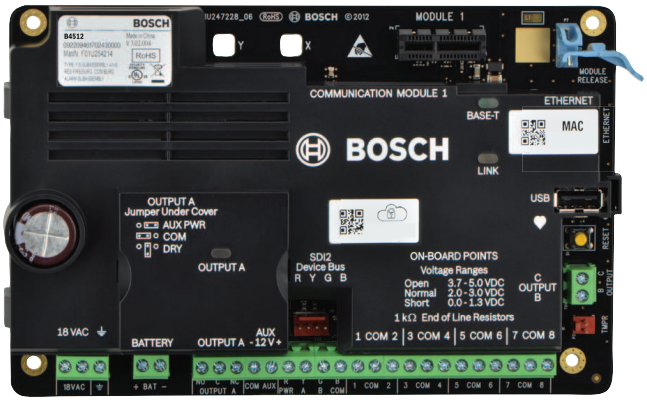
B4512 IP control panel, 28 points

B Series



- Provides up to 28 points using a combination of hardwired or wireless points for installation flexibility and 2 areas with perimeter and interior control
- On-board Ethernet port for Conettix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/IPv4, Auto-IP, and Universal Plug and Play
- Installer-friendly features for simple installation and communications, including plug-in PSTN and cellular communication modules
- Programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy

The B4512 Control Panel integrates intrusion and residential fire, providing one simple user interface for both systems. The B4512 provides up to 28 individually identified points that can be split into 2 areas.
The control panel communicates via the built-in Ethernet port or via compatible plug-in modules that can send events over the public switched telephone network (PSTN) or over cellular network communications.
With the B4512, you can monitor doors, windows, and motion within areas like showrooms or those that hold inventory. Each user can have a personalized passcode, a wireless keyfob, and an access credential to control the system.
Use programmable authority levels with restricted privileges to provide service, security, and cleaning personnel with full or limited access. Use the three programmable outputs (expandable up to 27) to turn on lights or lock and unlock doors. Users can:

- Turn on the system to secure the stock room while you conduct daily business.
- Perform tests to ensure your system is working properly.
- Set your system to alarm immediately if a door opens.
- Activate the Watch feature so a tone sounds whenever a customer enters.
- Set a schedule for your system to automatically turn on at closing time.
- Use wireless security options to customize your system.

Central monitoring stations provide 24-hour system monitoring with access to vital services. Professional security personnel can test the system, monitor system activity, and alert the police, fire department, or other emergency response teams if necessary.

Functions

Programmable outputs

- Three programmable on-board outputs; one high current using a relay, and two trigger outputs
- Output A, with a contact rating of 3 Amps, can supply up to 1.0 A total current from AUX PWR
- Outputs B and C sink up to 50 mA at 12 VDC
- Four alarm-output patterns
- Programmable bell test

Output Profiles

Output Profiles support custom programming and provide a way for outputs to operate based on unique application requirements.
Once an Output Profile is created, it can be reused and assigned to multiple outputs enabling quick output programming.

You can create Output Profiles that define how an output operates when specific events occur. Output Profiles provide a way to assign and use consistent output effects throughout the system.

Point response

- 20 custom point profiles
- Selectable point response time
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide
- Watch mode

User interface

- Supervision of up to 8 keypads
- Custom keypad text is fully programmable through RPS
- Full function menu including custom functions
- Authority by area and 32 character name for each user
- 14 custom authority levels to restrict system features that each user can access
- Programmable primary and secondary language by user and keypad
- 12 available languages (any two can be concurrently used)

User interface languages

The following table shows the available languages per keypad type.

	B915/ B915I	B920/ B925F/ B926F / B926M	B921C	B930	B940W/ B942/ B942W
English	✔	✔	✔	✔	✔
Chinese	✔				✔
Dutch	✔	✔	✔	✔	✔
French	✔	✔	✔	✔	✔
German	✔	✔	✔	✔	✔
Greek	✔				✔
Hungarian	✔	✔	✔	✔	✔
Italian	✔	✔	✔	✔	✔
Polish	✔				✔
Portuguese	✔	✔	✔	✔	✔
Spanish	✔	✔	✔	✔	✔
Swedish	✔	✔	✔	✔	✔

Area configurations

Area programming offers a wide selection of different system configurations. Make area arming conditional on other areas (master or associate), if desired. You can configure any area for perimeter and interior arming, not requiring a separate area for this function. For higher security applications, the Area Re-Arm feature guarantees that areas are always rearmed, and are disarmed for no longer than a specific, configurable, amount of time (for example, service time).

Custom functions

For added convenience, the installer can program custom functions that allow customers to complete complex tasks with one simple action. For example, a custom function can bypass a group of points and arm the system, allowing the user to perform these functions with one easy command. Users can activate custom functions with a keypad, keyfob, token, or card, or the control panel can activate a function in reaction to a faulted point, or automatically through a scheduled event (SKED).

Passcode security

- Two-man rule. Requires two people with two unique passcodes to be present at the time of opening.
- Early ambush. Allows users to verify that the facility is safe by requiring two passcodes. The control panel sends a duress event if the user does not enter the passcode a second time after inspecting the premises.
- Dual authentication. Requires two forms of identification before processing certain system commands, including turning off the system and opening doors. A standard system user must have a passcode, a credential (token or card), and appropriate command authority permissions.

Easy exit control

The control panel changes from one On (armed) state to another without turning off (disarming) the system. For example, if you change the state from Part On (Perimeter Arm) to All On (Master Arm), the control panel complies and reports the change. Easy exit control reduces the number of keystrokes, simplifying system operation.

Programmable passcode-controlled menu list

Passcode-controlled shortcuts provide users only with the options and information pertinent to them, simplifying system operation.

Flexible control

The system provides the flexibility to choose added convenience or high security. For example, you can restrict to a keypad's immediate local area turning on (arming) and turning off (disarming) the system with a passcode, even if the user has access to other areas. This is particularly useful for high security

areas, where a user may have access to the area, but would prefer to only turn off (disarm) the area individually rather than with the rest of the system.

Monitor Delay/Delayed Response
Create a special point profile that delays the reaction of a point for a specified time (up to 1 hour in minutes and seconds). This delay provides time for the specified condition to reset before activating any annunciation. The system can annunciate locally and send a report, if desired. When the system is armed, the point can respond like a normal point - providing dual functionality. Use this feature to ensure that perimeter doors have not been propped open, or to monitor critical areas such as computer rooms and safes, for example.

System users
The system supports up to 32 users. Each user can have a personalized passcode, a wireless keyfob, and an access credential to control the system. You can assign passcodes to one of 14 customized authority levels in each area and can be restricted to operate only during certain times. Programmable primary and secondary language by user and keypad; select from English, Chinese, French, Greek, Hungarian, Italian, Polish, Portuguese, and Spanish.

Route groups and destinations
The control panel can send reports to four different route groups using one primary and up to three backup destination devices for each route group.

Reporting capabilities
The control panel has flexible communications for most central station receivers with reporting capabilities such as:
- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports

Destination test
It is possible to send test reports to each and all destinations within each route group.

Communication formats
The control panel sends reports in these formats:
- Contact ID (PSTN)
- Modem4 (PSTN)
- Conettix Modem4
- Conettix ANSI-SIA Contact ID
- ANSI-SIA DC-09

Notice
UL and ULC LISTED applications
ANSI-SIA DC-09 format is not available for UL and ULC LISTED applications.

IP communication
The control panel can use IP to communicate with a CONETTIX B6800 Central Station Software Receiver, a CONETTIX D6600 or a CONETTIX D6100 IPv6 communications receiver/gateway. Use one of the following for IP:
- The on-board Ethernet connection
- Ethernet Communication Module: B426
- Plug-in cellular communicator: B444-G/B444-A/B444-V/B444-A2/B444-V2

Conettix IP communication provides a secure path that includes anti-replay/anti-substitution features, and enhanced security with up to AES 256-bit encryption (using Cipher Block Chaining (CBC)).
The control panel supports Domain Name System (DNS) for both remote programming and central station communication. DNS provides ease of use, eliminating the need to use static IP addresses as your reporting destination, and accommodates a simple solution for central station disaster recovery.
The control panel supports both IPv6 and IPv4 networks.

Communication paths
The control panel accommodates up to four separate phone and four separate network paths to the central station receiver. When resetting alarms or turning a system on and off, the user is identified by name and number.

Personal notification
The control panel can send text messages and emails for personal notification over Ethernet or using a cellular communicator. You can configure up to 16 destinations using a combination of cellular phone numbers and email addresses. The control panel sends notifications in the user's programmed primary language.

Firmware updates
Remote firmware updates are available. Alternatively, the firmware can be updated on-site using a USB stick containing the new panel firmware version.

A wide variety of input options
Each point:
- Single 1 kΩ, single 2 kΩ, dual 1 kΩ (1 kΩ + 1 kΩ), and No EOL (end-of-line) (EOL) resistor options (for on-board and B208 inputs)
- Programmable for Fire, Intrusion, Gas, and Supervisory devices
- Supports hardwired and wireless devices
- Supports IP cameras by Bosch as point and output devices
- Can be defined as a perimeter or interior to support Part On (perimeter only) arming

IP camera support
The control panel can integrate directly with Bosch IP cameras, using them as fully supervised points and outputs.

Integration of cameras allows the camera's video motion detection to activate points on the control panel. The IP Camera Point Source now includes two wired inputs of an IP camera. The control panel's virtual outputs (IP camera output source) can be configured to trigger camera actions, including sending video snapshots via email.

Security and fire detection
The control panel provides eight on-board points, and up to 20 additional off-board points (depending on model and expansion interfaces). You can program individual points to monitor some types of burglar alarms, fire alarms, and supervision devices.

Event log
The event log stores local and reported events. The event log includes information such as time, date, event, area, point, and user. View the event log from a keypad or use RPS to remotely retrieve event information. When the event log reaches a programmed threshold of stored events, it can send an optional report to a receiver.
The log stores up to 127 local and reported events.

Scheduled events (SKEDs)
The internal clock and calendar start individually scheduled events (SKEDs). SKEDs perform several functions such as turn on or off, relay control, or point bypassing.
The control panel offers:
- Five scheduled events with up to 25 different functions
- Two opening windows and two closing windows
- Two user group windows
- Day-of-week, date-of-month, or holiday only schedules
- One holiday schedule of 366 days (leap year)

Programming
Installers can perform limited programming on-site with a keypad (critical parameters; such as account IDs, central station and RPS IP addresses and phone numbers, reporting formats, and more). They can also do full programming on-site or remotely (attended or unattended) with RPS. A programmable system passcode prevents unauthorized remote programming.
The following table shows the available languages for RPS

	RPS programming	RPS custom text*
English	✔	✔
Dutch		✔
French		✔
German		✔
Hungarian		✔
Italian		✔
Portuguese		✔
Spanish		✔
Swedish		✔

* RPS custom text is text, that can be entered in RPS and which will then be displayed on keypads and on the mobile app.

Diagnostics
Keypads and RPS offer diagnostic help for monitoring and troubleshooting. The diagnostics features allow you to view the status of the wired and wireless devices. The features provide the status of the control panel and its connected devices, such as firmware version, power, and missing conditions. View the status of each area.

3rd Party Integrations
The control panel provides options for integration with software applications and solutions. Depending on the application, options include a Bosch SDK, RPS-API, Bosch proprietary MODE 2 or OPC interface. The OPC interface enables key DA (Data Access) and AE (Alarms & Events) to integrate with the Bosch BIS solution or 3rd party OPC Classic systems.

Bosch Video Management System integration
With Bosch Video Management System (Bosch VMS) and an intrusion system, the VMS operator has a single user interface to monitor and control the intrusion system combined with video surveillance. With Bosch VMS and a control panel, the operator can, for example:
- View videos triggered by intrusion events, including all relevant information such as areas, point, and user show in the display with the event.
- View areas, points, outputs, and doors - with their statuses - on the Bosch VMS map, providing the exact location in the system.
- Turn on (arm) and turn off (disarm) areas.
- Bypass and unbypass points.

Requirements to integrate Bosch VMS with a control panel:
- A licensed Bosch VMS system using Professional Editions v5.5 or higher or Bosch VMS Enterprise.
- Edition v5.5 or higher.
- Expansion license to integrate the intrusion control panel. One license needed per control panel. Order number MBX-XINT-xx for the expansion license added to a Bosch VMS base license. Refer to the Bosch Video Management Software product page on the Bosch website, www.boschsecurity.com.

- Access to the control panel account and Remote Programming Software (RPS).

Bosch Security Manager Mobile App
The Bosch Security Manager app allows users to control their security systems remotely from their smart devices. Users can:
- Easily view their system's status at a glance via the advanced and colorful design of the app
- Turn the security system On or Off (either the entire system or specific areas)
- Receive and filter event-driven push notifications
- View full event history for their system
- Add, edit, and delete users in their system
- Control outputs and doors
- View live video from Bosch IP cameras
- Access their panels from any device just by logging into the app with a Bosch ID (panels are now linked to an account and not a device)

Full functionality requires panel firmware 3.10 or higher and integration with the new Installer Services Portal. App users must have a valid email account and must be invited to the app by their Bosch certified dealer.
For those without access to the Installer Services Portal, Remote Security Control will remain available.

Installer Services Portal (North America)
The Installer Services Portal offers secure and easy access for managing Bosch cloud and cellular communication services for remote programming and alarm reporting. The Bosch Cloud Remote Connect service eliminates the need to change local router settings, firewall rules or to use Domain Name Service (DNS). In addition to seamless integration with RPS for remote programming, the Remote Connect service fully supports the Bosch Security Manager mobile app.

UL2050 (SCIF) Support
The B4512 can be used in UL2050 SCIF applications. Validation numbers 4342 and 2332 can be found on the NIST Advanced Encryption Standard Algorithm Validation List.

Regulatory information

Region	Regulatory compliance/quality marks	
USA	ANSI-SIA	CP-01-2010-Control Panel Standard - Features for False Alarm Reduction
Europe	CE	EMC, LVD, RoHS [B6512, B5512, B4512, B3512]
Brazil	ANATEL	04712-16-01855
USA	CSFM	California State Fire Marshal
	FCC	Part 15 Class B
Canada	IC	ICES-003 - Information Technology Equipment (ITE)
Australia	RCM	ACMA
USA	UL	Underwriters Laboratories
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 636 - Holdup Alarm Units and Systems
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	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
	UL	UL 1635 - Standard for Digital Alarm Communicator System Units
Canada	ULC	Underwriters Laboratories of Canada S1871-20121210
	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

Installation/configuration notes

Notice

Not all products and features are available in all regions. Consult your local Bosch representative for availability details.

Keypads

B940W Touch screen KP, White (SDI2)

B942/B942W Touch Screen Keypad (SDI2)

B930 ATM Style Alphanumeric Keypad (SDI2)

B921C Two-line Capacitive Keypad (SDI2)

B920 Two-line Alphanumeric Keypad (SDI2)

B915/B915I Basic Keypad (SDI2)

Power

CX4010 Plug-in Transformer (18 VAC 22 VA 60 Hz)

ICP-TR1822-CAN Plug-in Transformer (110 VAC primary, 18 VAC 22 VA secondary)

DE-45-18 Transformer

D126 Standby Battery (12 V, 7 Ah)

D1218 Battery (12 V, 18 Ah)

D122 Dual Battery Harness

D122 Dual Battery Harness with long leads

Enclosures

B10 Medium Control Panel Enclosure

B11 Small Control Panel Enclosure

B12 Mounting Plate for D8103 Enclosure

B8103 Universal Enclosure (requires a B12)

D8108A Attack Resistant Enclosure (requires a B12)

D8109 Fire Enclosure (requires a B12)

D8108A-CE Attack Resistant Enclosure with Built-in Transformer (requires a B12)

B-ENCL-1 Metal Enclosure Kit (includes B12 and transformer)

Accessories

B56 Keypad Surface Mount Box

B96 Keypad Trim Bezel

B99 USB Direct Connect Cable

B501-10 Interconnect wiring cables (pack of 10)

Detectors

FCC-380 Carbon Monoxide Detector

F220-P: Photoelectric Smoke Detector

F-220-PTH: Photoelectric/Heat Detector

FCP-OT320 Multisensor Detector Optical/Thermal

FCP-O320 Optical Smoke Detector

FCH-T320 Heat Detector

Bosch conventional detectors, including Professional Series, Blue Line Gen2, Blue Line, Classic Line, Commercial Line, and Ceiling Mount motion detectors, as well as glass break, seismic, request-to-exit, photoelectric, heat, and smoke detectors.

Modules

B201 2-wire Powered Loop Module

B208 Octo-input Module

B308 Octo-output Module

B426 Conettix Ethernet Communication Module

B430 Plug-in Telephone Communicator

B440 Conettix Plug-in Cellular Communicators

B442 Conettix Plug-in Cellular Communicator (using GPRS)

B443 Conettix Plug-in Cellular Communicator (using HSPA+)

B444 Conettix Plug-in Cellular Communicator

B444-A Plug-in cell module, AT&T LTE

B444-V Plug-in cell module, Verizon LTE

B450 Conettix Plug-in Communicator Interface

B520 Auxiliary Power Supply Module

B810 wireless receiver (RADION)

B820 SDI2 Inovonics Interface Module

D113 Battery Lead Supervision Module

D125B Dual Class B Initiating Module

D129 Class A Initiating Module

D130 Auxiliary Relay Module

D132A Smoke Detector Reversing Relay Module

D133/D134 Relay Module

D135A Low Battery Disconnect Module

D185 Reverse Polarity Signaling Module

D192G Class “B”, Style Y Bell Circuit Supervision

Applications

Remote Programming Software (RPS or RPS-LITE) v6.03 and higher

Bosch Video Management System v5.5 and higher

Remote Security Control

Conettix receivers

(Managed and configured with Conettix D6200 Programming/Administration Software v2.00)

Conettix D6600 Communications Receiver/Gateway (with only D6641 line cards installed) with CPU version 01.10.00

Conettix D6100IPv6 Communications Receiver/Gateway with CPU version 61.10.00

Conettix D6100i Communications Receiver/Gateway with CPU version 61.10.00

RADION wireless from Bosch

B810 wireless receiver (RADION)

RFBT-A/RFBT bill trap

RFDL-11-A/RFDL-11 TriTech motion detector

RFDW-RM-A/RFDW-RM recessed mount door/window contact

RFDW-SM-A/RFDW-SM surface mount door/window contact

RFGB-A/RFGB glass break detector

RFKF-A/RFKF two-button keyfob

RFKF-FBS-A/RFKF-FBS four-button keyfob

RFKF-TBS-A/RFKF-TBS two-button keyfob

RFPB-SB-A/ RFPB-SB single-button panic

RFPB-TB-A/RFPB-TB two-button panic

RFRP-A/RFRP repeater

RFHT-A Wireless heat detector

RFSM2-A Wireless smoke detector

RFCO-A Wireless CO detector

RFPR-12-A/RFPR-12 PIR motion detector

RFPR-C12-A/RFPR-C12 PIR curtain motion detector

RFUN-A/RFUN universal transmitter

Inovonics Wireless

B820 SDI2 Inovonics Interface Module

ENKIT-SDI2 SDI2 Inovonics Interface and Receiver Kit. Includes B820 and EN4200

EN1210 Universal Transmitter (Single-input)

EN1210EOL Universal Transmitter with EOL Resistor

EN1210W Door-Window Transmitter with Reed Switch

EN1215EOL Universal Transmitter with Wall Tamper, Reed Switch, and EOL Resistor

EN1223D Water-resistant Pendant Transmitter (Double-button)

EN1223S Water-resistant Pendant Transmitter (Single-button)

EN1224-ON Multiple-Condition Pendant Transmitter

EN1233D Necklace Pendant Transmitter (Double-button)

EN1233S Necklace Pendant Transmitter (Single-button)

EN1235D Beltclip Pendant Transmitter (Double-button)

EN1235DF Fixed-location Transmitter (Double-button)

EN1235S Beltclip Pendant Transmitter (Single-button)

EN1235SF Fixed-location Transmitter (Single-button)

EN1247 Glass-break Detector Transmitter

EN1249 Bill Trap Transmitter

EN1242 Smoke Detector Transmitter

EN1260 Wall Mount Motion Detector

EN1261HT High Traffic Motion Detector

EN1262 Motion Detector with Pet Immunity

EN1265 360° Ceiling Mount Motion Detector

EN4200 Serial Receiver

EN5040-T High Power Repeater with Transformer

Parts included

Quantity	Component
1	Control panel
1	Literature pack: • UL Installation Guide • ULC Installation Guide (English and French) • Owner's Manual • Release Notes • SIA Quick Reference Guide Quick Installation Guide
1	Literature CD containing product literature
1	Wiring label for enclosure door
1	Hardware pack: • Mounting clips • 1 kΩ EOL resistors • Battery wires • Four #6 x 3/4 in self threading screws

Technical specifications

Capacity

Number of points	28
Number of areas	2
Number of events	512
Number of users	33
Number of outputs	27
Number of on-board outputs	3
Number of SKEDs	5
Number of IP cameras	2

Electrical

Current consumption (mA)	125 mA – 155 mA
Input voltage (VAC)	16.50 VAC – 18 VAC
Maximum auxiliary output current (mA)	800 mA
Nominal voltage (VDC)	12 VDC
Output current (A)	0 A – 1.30 A

Environmental

Operating temperature (°C)	0 °C – 49 °C
Operating temperature (°F)	32 °F – 122 °F
Operating relative humidity, non-condensing (%)	5% – 93%

Network

Ethernet type	10/100BASE-T

Ordering information

B4512 IP control panel, 28 points
Supports up to 28 points, 3 on-board outputs, and 2 areas for intrusion, residential fire. On-board Ethernet.
Order number **B4512 |**
F.01U.323.782 F.01U.390.778
F.01U.416.966

Accessories

B520 Auxiliary power supply module, 2A 12V
Provides auxiliary power to 12 VDC devices or to SDI2 modules.
Order number **B520 |**
F.01U.172.941

B201 2-Wire Powered Loop
The module provides a single powered initiating device circuit. The module supports compatible 12 V 2-wire smoke detectors. It also supports connecting burglary devices to the control panel.
Order number **B201 |**
F.01U.323.798

B208 Expansion module, SDI2, 8-input
Provides 8 programmable inputs.
Order number **B208 |**
F.01U.397.024

B308 Expansion module, SDI2, 8-output
Provides 8 programmable relays.
Order number **B308 |**
F.01U.397.025

B810 Wireless SDI2 bus interface
Receives RF signals from RADION transmitters, repeaters, and glassbreaks. Operates at 433.42 MHz. For use with compatible SDI2 bus control panels.
Order number **B810 |**
F.01U.323.799 F.01U.383.394

D122 Dual battery harness
Harness with circuit breaker. Connects two batteries (in parallel) to a compatible control panel.
Order number **D122 |**
4.998.800.378

D122L Dual battery harness, long
Harness with circuit breaker and leads measuring 35 in. (89 cm). Connects two batteries (in parallel) to a compatible control panel in a separate enclosure.
Order number **D122L |**
4.998.140.606

D126 Battery, 12V 7Ah
A rechargeable sealed lead-acid power supply used as a secondary power supply or in auxiliary or ancillary functions.

Order number **D126 |**	Asset Key	Vepos
4.998.125.825	**4011**	**6845**

D1218 Battery, 12V 18Ah
The D1218 is a 12 V 18 Ah sealed lead-acid battery with two bolt-fastened terminals. It is used for standby and auxiliary power. It connects to a compatible control panel using a D122 or D122L Dual battery harness.
Order number **D1218 |**
4.998.125.820

CX4010 Transformer, plug-in, 18V 22VA
For use in North America. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input.
Order number **CX4010 |**
F.01U.020.504

ICP-TR1822-CAN Transformer, plug-in, 18V 22VA, Canada
For use in Canada. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input.
Order number **ICP-TR1822-CAN**
| F.01U.005.574

B8103 Universal enclosure, white
White steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
Order number **B8103 |**
F.01U.300.149

D8108A Attack resistant enclosure, large
Grey steel enclosure measuring 41.5 cm x 41.5 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
UL Listed. Includes a lock and key set.
Order number **D8108A |**
4.998.125.920

D8109 Fire enclosure, 16x16x3.5", red
Red enclosure, 16in. x 16in. x 3.5in. (41cm x 41cm x 9cm), 16 gauge (1.5mm) cold-rolled steel, full-length hinge, D101F lock and 2 D102F keys, UL Listed for commercial fire/burglary applications.
Order number **D8109 |**
4.998.800.205

B10 Steel enclosure, medium, white
White, steel enclosure. Accepts an optional lock and tamper switch. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in).
Order number **B10 |**
F.01U.268.495

B11 Steel enclosure, small, white
White, steel enclosure. Accepts an optional lock and tamper switch. Measures 27.8 cm x 25.9 cm x 8.32 cm (10.9 in x 10.2 in x 3.3 in).
Order number **B11 |**
F.01U.262.005

B12 Mounting plate for D8103 enclosure
Required for mounting select control panels and other devices in B8103, D8103, D8108A, D8109, and BATB Battery Box enclosures.
Order number **B12 |**
F.01U.260.846

B-ENCL-1 Metal Enclosure kit w/transformer
White steel enclosure with installed 220 VAC transformer.
Order number **B-ENCL-1 |**
F.01U.322.491

D8004 Transformer enclosure kit, grey
For applications that might require a remote transformer in an enclosure. Can be used with B Series control panels and D9412GV4/D7412GV4 control panels.
Order number **D8004 |**
4.998.140.404

D101 Enclosure lock and key set
Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.
Order number **D101 |**
4.998.800.200

D110 Tamper switch for enclosure, 2pcs
Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
Order number **D110 |**
4.998.137.947 F.01U.246.707

ICP-EZTS Dual tamper switch
Combination tamper switch with a wire loop for additional tamper outputs.
Order number **ICP-EZTS |**
F.01U.217.038

B99 USB direct connect cable
Male A to Male A USB cable for local programming of control panels with on-board USB ports.
Order number **B99 |**
F.01U.278.853

B915 Basic Keypad
Two-line alphanumeric basic keypad with language function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915 |**
F.01U.323.784 F.01U.385.667

B915I LCD keypad, icon keys, SDI2
Two-line alphanumeric basic keypad with icon function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915I |**
F.01U.385.666 F.01U.315.437

B920 2 Line Alpha Numeric Keypad (SDI2)
Two-line alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B920 |**
F.01U.323.785 F.01U.385.668

B921C Two-line Keypad w/Touch keys, Inputs
Two-line alphanumeric keypad with inputs and capacitive touch keys in black.
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B921C | F.01U.323.786 F.01U.385.734**

B930 ATM Style-Alpha Numeric Keypad (SD12)
Five-line ATM style alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number **B930 | F.01U.323.787 F.01U.385.669**

B940W Slim Touch Keypad
SDI2 compatible touch screen keypad with function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B940W | F.01U.358.360**

B942 Touch Screen KP Prox/Input/Output, black
Black SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B942 | F.01U.323.788**

B942W Touch screen KP, prox/input/output,white
White SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B942W | F.01U.323.789**

B426 Ethernet Communication Module
Supports two-way communications over Ethernet networks for compatible control panels

Order number **B426 |**	Asset Key	Vepos
F.01U.324.383 F.01U.414.222	**4235**	**7897**

B442 Plug-in cellular module, GPRS
Multi-function cellular communicator that provides IP communication over a (GPRS) cellular network

Order number **B442 |**	Asset Key	Vepos
F.01U.283.090 F.01U.385.514	**4235**	**8330**

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 |**	Asset Key	Vepos
F.01U.323.796 F.01U.385.515	**4235**	**8336**

B444 Plug-in cellular module, VZW LTE, hot
Pre-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444 | F.01U.335.089**

B444-C Plug-in cell module, VZW LTE, cold
Non-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444-C | F.01U.349.007**

B444-A Plug-in cell module, AMEC LTE
This communication module provides secure two-way IP communication on North American wireless networks. Only available in Canada.
Order number **B444-A | F.01U.385.518**

B444-V Plug-in cell module, VZW LTE
This communication module provides secure two-way IP communication on the Verizon Wireless network.
Order number **B444-V | F.01U.385.517**

Software Options

D5500CU Upgrade DVD
RPS software is available for free download on the RPS product page. It is also available on DVD-ROM.
Order number **D5500CU | 4.998.143.725**

Services

EWE-CTRCOM-IW 12 mths wrty ext Control Communicator
12 months warranty extension
Order number **EWE-CTRCOM-IW | F.01U.352.289**

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B915 Basic Keypads

www.boschsecurity.com

BOSCH
Invented for life

- 2-line LCD display
- Arm/ready to arm, all/part, trouble, and power status indicators
- Separate mounting plate base and chassis design
- Available with English function keys or icon function keys

The B915/B915I Basic Keypad is a SDI2 bus compatible device. Each keypad has user adjustable options, such as volume and display brightness. The keypad shows two-line system messages for all areas.

Keypad languages
The following languages are available:
- English
- Chinese
- Dutch
- French
- German
- Greek
- Italian
- Hungarian
- Polish
- Portuguese
- Spanish
- Swedish

System overview

- For commercial use, install the keypad in building entrances and areas with unrestricted access. Mounting a keypad near exterior doors in hotel or business lobbies allows people to identify the type and location of the emergency.
- For residential use, install the keypad near the front and rear entrances to the home. Install additional keypads in a kitchen or in a bedroom.
- Use multiple keypads in a large building with many separate areas of security. Program multiple keypads to control multiple areas.
- Audible tones from the keypad sounder alert personnel to fire events and assist fire fighters in locating the keypad.

Functions

LCD display
The keypad uses words, numbers, and symbols to show the status of the security system. When several events occur, the keypad shows each event in order of priority.

Keys
Each keypad has 10 number keys and 5 navigation and function keys. When pressed, keys turn on keypad backlighting and emit the keypress tone (a short beep).

Audible tones
The keypad has a built-in sounder that produces several distinct audible warning tones. Each audible tone sounds different, so users can recognize an event by hearing its unique tone. The keypad backlight illuminates when the keypad emits an audible tone. To silence the tone, users enter a passcode.

Status indicators

The Status indicators on keypads provide a quick visual reference to see how your system is operating.

Part On status.
- Green. Ready to turn Part On.
- Red. Part On (part armed).

Power. The blue power plug indicates whether the control panel has AC power.
- On Steady. The AC (mains) power to the control panel is present.
- Flashing. AC (mains) power to the control panel is not present, and the control panel is operating from the battery.
- Off. There is no power to the control panel.

Trouble. The yellow caution lights when a trouble condition exists.
- On Steady. There is a system, device, or point trouble.
- Off. There are no system, device, or point troubles.

All On status.
- Green. Ready to turn All On.
- Red. All On (all armed).

Certifications and approvals

Region	Regulatory compliance/quality marks	
Australia	RCM	ACMA
Europe	CE	EMC, RoHS [B915, B920, B930, B430, B208, B308, B901]
USA	UL	20150924-S1871
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 636 - Holdup Alarm Units and 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)
	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
	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)

Installation/configuration notes

Mounting considerations

Mount in indoor, dry locations.

Power supply

A compatible control panel supplies the power and data requirements to the keypad through a four-wire connection.

Enclosure and wiring

Includes a slim mounting plate for recessed wiring.

Compatible control panels

B9512G/B9512G-E
B8512G/B8512G-E
B6512
B5512/B5512E firmware v2.03 and higher
B4512/B4512E firmware v2.03 and higher
B3512/B3512E firmware v2.03 and higher
D9412GV4/D7412GV4 v2.03 and higher

Technical specifications

Wiring

Terminal wires	1.02 mm to 0.65 mm (18 AWG to 22 AWG)

Environmental considerations

Relative humidity	5% to 93% at +32°C (+90°F) non-condensing
Temperature (operating)	0°C to +50°C (+32°F to +122°F)

Keypad

Dimensions	139 mm x 118 mm x 23 mm (5.5 in x 4.7 in x 1 in)
Weight	0.30 kg (11.2 oz)
Material	Acrylonitrile butadiene styrene (ABS) Poly(methyl methacrylate) (PMMA)
Display window	2 line display 18 characters per line
Indicators	Illuminated keys Status indicators Warning and indicating tones

Power requirements

Current	35 mA in standby mode 70 mA in alarm mode
Voltage (input)	12 VDC nominal

Ordering information

B915 Basic Keypad
Two-line alphanumeric basic keypad with language function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915**

B56 Keypad surface mount box
Surface mount box for mounting a keypad to concrete or block.
Order number **B56**

B96 Trim plate for keypad
Cover the wall footprint of previous keypads when replacing them with the new, slim design of B Series keypads. The white trim bezel is 8.6 in x 6.3 in x 0.12 in (22 mm x 16 mm x 3 mm).
Order number **B96**

B915I LCD keypad, icon keys, SDI2
Two-line alphanumeric basic keypad with icon function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number **B915I**

B56 Keypad surface mount box
Surface mount box for mounting a keypad to concrete or block.
Order number **B56**

B96 Trim plate for keypad
Cover the wall footprint of previous keypads when replacing them with the new, slim design of B Series keypads. The white trim bezel is 8.6 in x 6.3 in x 0.12 in (22 mm x 16 mm x 3 mm).
Order number **B96**

B915I-CHI Basic Keypad
Two-line alphanumeric basic keypad with icon function keys.
Available language: Chinese.
Order number **B915I-CHI**

B56 Keypad surface mount box
Surface mount box for mounting a keypad to concrete or block.
Order number **B56**

B96 Trim plate for keypad
Cover the wall footprint of previous keypads when replacing them with the new, slim design of B Series keypads. The white trim bezel is 8.6 in x 6.3 in x 0.12 in (22 mm x 16 mm x 3 mm).
Order number **B96**

Accessories

B56 Keypad surface mount box
Surface mount box for mounting a keypad to concrete or block.
Order number **B56**

B96 Trim plate for keypad
Cover the wall footprint of previous keypads when replacing them with the new, slim design of B Series keypads. The white trim bezel is 8.6 in x 6.3 in x 0.12 in (22 mm x 16 mm x 3 mm).
Order number **B96**

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20410180235 | en, V22, 14. Jun 2019

B10R Enclosure, medium, red

www.boschsecurity.com

BOSCH
Invented for life

- Easy to install standoff locations for mounting supporting modules
- Made with cold-rolled steel with a red matte finish for fire applications
- Easy access mounting locations for optional transformers
- Punch outs for optional B46 External Annunciator (for B465 only)

The B10R Medium Control Panel Enclosure is a red enclosure made of cold-rolled steel that is 1.0 mm (20 gauge) thick. It houses many different Bosch control panels and modules. The enclosure holds one 18Ah battery or two batteries (up to 7Ah).
It is compatible with the following accessories:

- **D101 Lock and Key Set.** Standard lock set with one key supplied. Uses the D102 (#1358) replacement key.
- **D110 Tamper Switch**. Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
- **ICP-EZTS Dual Tamper Switch.** Combination tamper switch with a wire loop for additional tamper outputs.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	S1871-19850314-CertificateofCompliance
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)
	FDNY-CoA	6307 B465_NYC_CoA_6307
Canada	ULC	[D8108A, D8108AH, D8109, D8109G, D8109H, D8109L,B8103, D8103, B12, B10, B10R, B11, B11R

Installation/configuration notes

Compatibility

Devices	B465 Conettix Universal Dual Path Communicator B46 External Annunciator D101 Lock and Key Set ICP-EZTS Tamper Switch Set D110 Tamper Switch

Parts included

Quantity	Component
1	Enclosure
1	Hardware pack
1	Installation Manual

Technical specifications

Properties

Dimensions	14 in x 12.5 in x 3 in (35.6 cm x 31.8 Cm x 7.6 cm)
Material	1.0 mm (20 gauge) cold-rolled steel
Color	Red

Environmental considerations

Mounting considerations	Mount in dry indoor locations.

Ordering information

B10R Enclosure, medium, red
Red, steel enclosure. Accepts an optional lock and tamper switch.
Order number **B10R**

Accessories

D101 Enclosure lock and key set
Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.
Order number **D101**

ICP-EZTS Dual tamper switch
Combination tamper switch with a wire loop for additional tamper outputs.
Order number **ICP-EZTS**

D110 Tamper switch for enclosure, 2pcs
Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
Order number **D110**

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18864721547 | en, V13, 26. Jun 2020

D126 Standby Battery (12 V, 7 Ah)

www.boschsecurity.com

BOSCH
Invented for life

- 12 VDC sealed lead-acid
- Fully rechargeable
- Maintenance-free
- For use as secondary power source
- Long service life

This battery is a maintenance-free, sealed lead-acid, standby and auxiliary power source that provides long service life and dependability.
The battery is for use only with charging circuits calibrated for lead-acid batteries. It is suitable for supplying backup power for fire, security, and access control systems during AC power failures.
The D126 fits in any of the currently offered enclosures and connects to the two color-coded battery leads supplied with the control panel or module. Use a D122 Dual Battery Harness to connect two D126 batteries in parallel and double the amp hour capacity.

Certifications and approvals

Region	Certification	
USA	CSFM	California State Fire Marshal (see our website)

Installation/configuration notes

Standby power requirements
Refer to the appropriate control panel installation manual for information on calculating the standby battery requirements for the system. Total continuous and intermittent current requirements must not exceed the amp hour capacity of the battery.

Compatibility
The battery is compatible with all Bosch control panels.

Parts included

Quantity	Component
1	12 V battery

Technical specifications

Capacity

Capacity (25 °C)	12 V, 7.2 Ah	20 hour rate
Internal resistance	Fully charged battery (25 °C)	21 MΩ
Temperature dependency of capacity (20 hour rate)	40 °C (104 °F) 25 °C (77 °F) 0 °C (32 °F) -15 °C (5 °F)	102% 100% 85% 65%

Properties

Dimensions	15 cm x 6.5 cm x 9.4 cm (6 in. x 2.5 in. x 3.7 in.)
Total height with terminals	10 cm (4 in.)

Weight	2.5 kg (5.5 lb)
Terminal	Faston .187

Ordering information

D126 Standby Battery (12 V, 7 Ah)
A rechargeable sealed lead-acid power supply used as a secondary power supply or in auxiliary or ancillary functions.
Order number **D126**

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D135A Low battery disconnect module

www.boschsecurity.com

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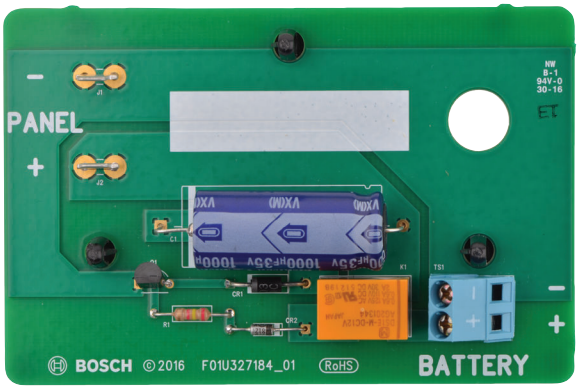

- Disconnects a B6512/B5512/B4512/B3512 from the battery when the battery level drops to 9.5 VDC
- Required for use with compatible control panels for CAN/ULC S559
- Quick and easy installation

The D135A works with compatible control panels to protect the battery from deep discharge in the event of an extended AC power outage. The D135A prevents deep discharge by disconnecting the battery from the control panel when battery voltage drops down to 9.5 VDC.

Certifications and approvals

Region	Regulatory compliance/quality marks	
Australia	RCM	ACMA
Canada	ULC	CAN/ULC S559 - Fire Signal Receiving Centres and Systems
	ULC	S1871-20121210

Installation/configuration notes

Compatibility

Control panels	B6512 B5512/B5512E B4512/B4512E B3512/B3512E
Batteries	1 x 7AH or 1 x 18 AH 12V battery

Parts included

Quantity	Component
1	D135A module
1	3 hole mounting bracket
3	Mounting screws
2	Battery leads
1	Installation Manual

Technical specifications

Wiring

Battery leads	2

Environmental considerations

Relative humidity	5% to 93% at +32°C (+90°F) non-condensing
Temperature (operating)	0°C to +50°C (+32°F to +122°F)

Properties

Dimensions	2.75 in x 1.25 in x 0.75 in (70 mm x 32 mm x 20 mm)
Weight	0.74 oz (0.021 kg)

Power

Maximum battery charge current	2 A
Maximum current from battery	2 A
Module current	40 mA
Voltage	12 VDC nominal
Cut off voltage	9.5 V

Ordering information

D135A Low battery disconnect module
Disconnects the control panel from the battery when the battery level drops to 9.5 VDC.
Order number **D135A**

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2548075659 | en, V9, 29. Jun 2020

D101 Enclosure lock and key set

www.boschsecurity.com

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Invented for life

- Lock and key set fits Bosch enclosures

The D101 Lock and Key set is a short-body lock set with one key supplied. The set is compatible with several enclosures.

Installation/configuration notes

Compatible with the D102 (#1358) replacement key.

Parts included

Quantity	Component
1	Lock
1	Key

Technical specifications

Weight	0.017 lb. (0.008 kg)
Color	Silver

Ordering information

D101 Enclosure lock and key set
Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.
Order number **D101**

B430 Plug-in Communicator, Telephone

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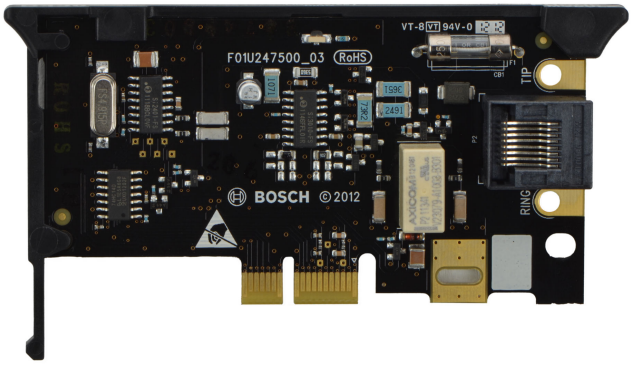

- Provides a single telephone line with RJ-45 connection for central station reporting and remote programming
- Easily configured for communications from Remote Programming Software (RPS) or a keypad, eliminating the need for separate configuration
- Easy two-step plug-in installation, troubleshooting, and maintenance

The B430 provides communication over the PSTN (Public Switched Telephone Network) by connecting the PSTN to the control panel. The module provides a single telephone jack, and easily installs into the control panel on-board plug-in module connector.

Functions

Central station reporting
The B430 supports reporting to a central station receiver through the telephone lines.
Remote programming of Bosch control panels
The B430 supports secure RPS programming of compatible Bosch control panels.

Certifications and approvals

Region	Regulatory compliance/quality marks	
Australia	RCM	ACMA
Europe	CE	EMC, RoHS [B915, B920, B930, B430, B208, B308, B901]
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 (10th edition)
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	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	California State Fire Marshal
	FCC	Part 15 Class B
	FCC	Part 68
	FDNY-CoA	6286 D7412GV4 D9412GV4 NYC COA 6286 2018-2021
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

Region	Regulatory compliance/quality marks	
	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	0139-18 [B430]

Installation/configuration notes

Mounting considerations
Connect the B430 Plug-in Telephone Communicator to any compatible control panel or interface module, which can then be mounted in a variety of enclosures for optimal situations.

Wiring considerations
The B430 connects to the control panel or interface modules without tools or physical wiring for power. It has an RJ-45 jack for plugging in the phone line (PSTN).

Communication speed
The module communicates at 2400 baud maximum.

Compatibility

Control panels	B9512G/B9512G-E B6512 B8512G/B8512G-E B5512/B5512E B4512/B4512E B3512/B3512E
Phone cords	D161 Dual Modular Telephone Cord D162 Modular Telephone Cord
Phone jack	D166 Telephone Jack

Parts included

Quantity	Component
1	B430 Plug-in Telephone Communicator
1	Literature pack

Technical specifications

Electrical

Current (maximum)	Standby: 24 mA Alarm: 24 mA
Voltage (operating)	12 VDC nominal

Mechanical

Dimensions	50 mm x 93.5 mm x 15.25 mm (2 in. x 3.68 in. x 0.60 in.)
Weight	0.6 kg (1.3 lb)

Environmental

Relative humidity	5% to 93% at +32°C (+90°F)
Temperature (operating)	0°C to +49°C (+32°F to +120°F)
FCC details	FCC registration number: ESVAL00BB430 Ringer Eq: 0.0B

Ordering information

B430 Plug-in Communicator, Telephone
Plug-in PSTN communication module for control panel to central station receiver communication.
Order number **B430**

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

Germany:
Bosch Sicherheitssysteme GmbH
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www.boschsecurity.com

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Fairport, New York, 14450, USA
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www.boschsecurity.asia

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18964708491 | en, V17, 25. Jun 2020

D162 Modular Telephone Cord

www.boschsecurity.com

BOSCH
Invented for life

- Connects an RJ31X Telco block to an RJ38X Telco jack
- 61 cm (2 ft.) for shorter distances

Certifications and approvals

Region	Certification	
USA	CSFM	see our website

Parts included

Quantity	Component
1	Telephone cord

Technical specifications

Length	61 cm (2 ft.)
Color	Gray

Ordering information

D162 Modular Telephone Cord
A 61 cm (2 ft) telephone cord with a standard plug on one end.
Order number **D162**

D166 Telephone Jack

www.boschsecurity.com

BOSCH
Invented for life

Ordering information

D166 Telephone Jack
Standard Telco RJ31X Telephone Jack measuring approximately 5 cm (2 in.) square by 2.5 cm (1 in.) high.
Order number **D166**

B450 Conettix Plug-in Communicator Interfaces

www.boschsecurity.com

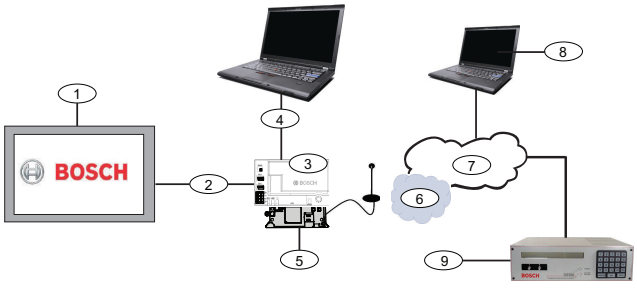
BOSCH
Invented for life

- Full two-way IP communication using Plug-in Cellular Communicators
- Plug and Play installation makes future radio technology changes easy
- Compatible with new and most deployed Bosch control panels
- Supports remote installation of cellular modules for improved signal

The Conettix Plug-in Communicator Interface is a four-wire powered SDI2, SDI, or option bus device that provides two-way communication with compatible control panels over commercial cellular networks using a plug-in communicator (available separately).

System overview

Conettix Plug-in Communicator Interfaces (B450/B450-M) work with plug-in communicators for primary or backup alarm communication, remote programming, and other remote applications. The plug-in communicator interface supports Conettix IP protocol with full authentication, 256-bit AES encryption, and resistance to Denial of Service attacks. The interface also supports compatible Bosch control panels with SIA DC-09, CSV-IP. The interface is a reliable way to add cellular network communications to existing or new commercial security and fire installations.



Callout – Description	Callout – Description
1 – Compatible control panel	6 – Cellular carrier network
2 – Panel data bus (SDI2, SDI, or option)	7 – Internet/LAN/WAN
3 – Module	8 – Remote Programming workstation
4 – USB connection for module configuration	9 – Compatible IP receiver (Bosch D6100IPv6 shown)
5 – B44x plug-in communicator (available separately)	

Functions

Conettix IP communication
The following features are supported with the plug-in communicator interface via BOSCH Conettix IP protocol and SIA DC-09 UDP, CSV-IP on supported control panels including:
- IP Alarm communication
- Remote programing
- Personal notification via text or email on supported panels

Addressing
Use the address switch to easily assign a bus address or setup for USB or SMS configuration where required.

Easy configuration
For most installations, the default plug-in communicator interface settings allow installation with no device programming required. An address switch allows easy bus address selection.
For customized network settings, the interfaces support a USB configuration menu, or configuration via SMS. The following control panels support RPS programming:
- B9512G/B9512G-E
- B8512G/B8512G-E
- B6512
- B5512/B5512E
- B4512/B4512E
- B3512/B3512E
- D9412GV4/D7412GV4/D7212GV4

LEDs
Three LEDs provide status and troubleshooting information.

LED	Indication
Heartbeat	Plug-in communicator and control panel connection status
RX	An inbound packet is received on the bus
TX	An outbound packet is transmitted on the bus

Certifications and approvals

Notice
The B450-M has received certifications only as noted. If not noted, the certification applies to the B450 only.

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
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)
	CSFM	California State Fire Marshal
	FCC	Part 15 Class B
	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	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)
Brazil	ANATEL	2708-14-1855

Installation/configuration notes

Mounting considerations
Install in a location with acceptable wireless network signal strength. Mount the module into the interior of a compatible enclosure. Use the 3-hole mounting pattern. Use the supplied mounting screws.

Wiring considerations
The interface connects to a control panel using a data bus connection via the module's terminal strip, or the module's interconnect wiring connectors.
For data bus powered installations outside the compatible control panel enclosure, follow the maximum wiring distances in the technical specifications.
Compatibilities

Control panels - B450	B9512G/B8512G B6512/B5512/B4512/B3512 (B5512E/B4512E/B3512E with firmware v2.03 and higher) D9412GV4/D7412GV4/D7212GV4 (v1.00.0xx+) D9412GV3/D7412GV3/D7212GV3 D9412GV2/D7412GV2/D7212GV2 (v7.06+) FPD-7024 (v1.03+) CMS 6/8 CMS 40 Easy Series (v3+) AMAX 2100/3000/4000 Solution 2000/3000*
Control panels - B450-M	*AMAX 2000/2100/3000/4000/ *Solution 2000/3000
Cellular communicators	B442 (3G GPRS GSM) B443 (3G/4G HSPA+ GSM) B444 (4G VZW LTE)
Enclosures	B10 B11 D8103 D203
Applications	Tera Term (for USB B450 configuration) Hyper Terminal (for USB B450 configuration) RPS version 5.16 or higher Remote Security Control (Supported on GV4, B9512G/B8512G, B9512G-G/B8512G-E, B6512/B5512/B4512/B3512, B5512%/B4512E/B3512E, and Solution 2000/3000 Remote Security Control+ (Supported on AMAX and Solution Series control panel)

*The B450-M is compatible with AMAX and Solution control panels only.

Function	Option/SDI bus	SDI2 bus	Details
IP Event Reporting	Y	Y	TCP protocols only supported on SDI2
Remote Program (RPS or A-link)	Y	Y	Requires Bosch Cellular service or other cellular network access
Configure B450 from control panel (RPS, A-link)	N	Y	GV4/B Series v2.03+, AMAX vX.X, Solution vX.X
Personal Notification via SMS or Email	N	Y	Requires compatible control panel and cellular plan
Remote Security Control App	N	Y*	Requires Bosch Cellular service or other cellular network access

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.

Technical specifications

Environmental

Relative humidity	Up to 93% at +32°C (+90°F) non-condensing
Operating temperature	0°C to +50°C (+32°F to +122°F)

Mechanical

Dimensions	79 mm x 128 mm x 38 mm (3.11 in x 5.03 in x 1.50 in)

Electrical

Current (operating)	**Standby:** With cellular communicator = 60 mA **Alarm:** With cellular communicator = 180 mA
Voltage (operating)	(Bus operation): 12 VDC nominal

Wiring

Data bus wire gauge	12 AWG to 22 AWG (2.0 mm to .06 mm)
USB cable	USB cable (Type A to A male-to-male) – not supplied
Data bus wire length	Maximum Distance – wire size 22 AWG (0.6 mm) - 12 m (40 ft) 18 AWG (1.0 mm) - 30 m (100 ft) 16 AWG (1.3 mm) - 48 m (158 ft) 12 AWG (2.0 mm) - 122 m (400 ft) You can extend the wire distances 300 m (1000 ft). Use a separate power supply, such as the B520 Auxiliary Power Supply Module.

Ordering information

B450 Plug-in Communicator Interface
Supports two-way IP communications using plug-in cellular communicators for compatible control panels
Order number **B450**

B450-CHI Plug-in Communicator Interface
Supports two-way IP communications using plug-in cellular communicators for Bosch 8500 and 5500 Series Control Panels
Order number **B450-CHI**

B450-M Plug-in communicator interface, mobile
Supports cellular communication for remote programming and mobile apps on AMAX and Solution Series control panels
Order number **B450-M**

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

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

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

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**

B444 Plug-in cellular module, VZW LTE, hot
Pre-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444**

Represented by:

Europe, Middle East, Africa:
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B444-A Plug-in cell module, AMEC LTE

www.boschsecurity.com

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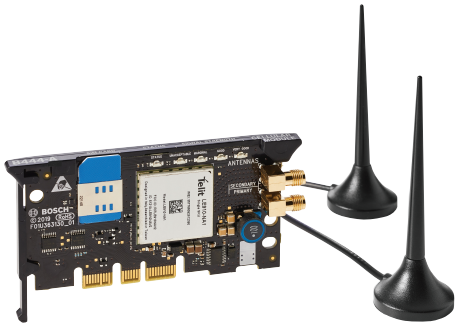


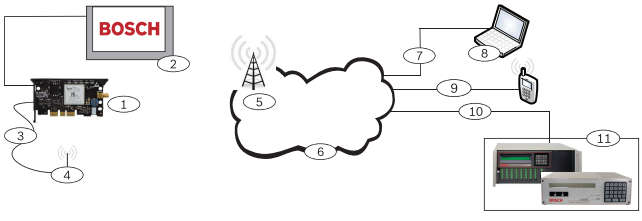
- Secure Conettix IP communication to Bosch receivers using the AT&T cellular network, including support for Rogers and Ice wireless services in Canada.
- Remote programming and monitoring of compatible Bosch panels
- E-mail notification options
- Direct configuration from Bosch Remote Programming Software (RPS) eliminates the need for separate set-up
- Simple LED status information and advanced keypad diagnostics available with easy two-step plug-in installation, troubleshooting, and maintenance

The cellular communicator enables secure two-way IP communication over the AT&T cellular network by plugging into a compatible Bosch control panel or communicator interface.

- Alarm reporting to a central station
- Remote control panel programming through RPS with supported control panels
- Remote monitoring and control through a mobile application with supported control panels
- Personal notifications for compatible control panels

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

System overview



Callout — Description	Callout — Description
1 — Cellular communicator	7 — Remote PC's network connection
2 — Compatible control panel/ communicator interface	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)
- Signal strength and diagnostics available through keypad and Remote Programing Software (RPS)
- Diagnostic LEDs for on-site troubleshooting

SMA antenna connections
Each module uses a two-port antenna connection and uses two SMA antennas to maximize cellular communications.

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.

Remote Connect Programming Service support
Remote Connect Programming Service enables a secure control panel connection to RPS using Bosch Cloud services. The service allows a secure TLS connection to a control panel without specific port and router settings and without a static IP or DNS.

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

Certifications and approvals

Region	Certification	
USA	UL	CP-01-2010 Control Panel Standard - Features for False Alarm Reduction

Region	Regulatory compliance/quality marks	
USA	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)
	UL	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL	UL 1610 - Central Station Burglar Alarm Units
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 636 - Holdup Alarm Units and Systems
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	UL	UL 1023 - Household Burglar Alarm System Units
	UL	UL 1635 - Standard for Digital Alarm Communicator System Units
	FCC	Part 15 Class B
Canada	ULC	Underwriters Laboratories of Canada S1871-20121210
	ULC	ULC-ORD C1023 - Household Burglar Alarm System Units
	ULC	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	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
	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, the B450 is wired to the control panel data bus. The cellular module has a screw on SMA antenna connection.

Compatibilities

Devices	B9512G/B9512G-E, B8512G/B8512G-E B6512/B5512/B4512/B3512, B5512E/B4512E/B3512E control panel with firmware v3.09 or higher (direct insertion) The module is compatible with most Bosch control panels when used with a B450 Conettix Plug-in Communicator Interface with firmware v3.09 or higher. Refer to the B450 datasheet for complete control panel compatibility listings. B465 Conettix Universal Dual Path Communicator with firmware v2.09 or higher. B40-P, B40-MB25, B40-MB50 auxiliary indoor/outdoor antennas
Cellular	4G LTE - Cat 1 with 3G fallback

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	Cellular module
2	Antennas
1	Literature pack

Technical specifications

Electrical

Current (operating)	Standby: 35 mA Alarm: 100 mA
Voltage (operating)	12 VDC nominal
Radio	North America LTE CAT 1, Bands 2, 4, 5, 12 North America UMTS / HSPA+, Bands 2, 5

Environmental

Environment	Environmental Class III - Indoor
Relative humidity	5 - 93% at +32°C (+90°F) non-condensing
Operating temperature	0°C to +49°C (+32°F to +120°F)

Mechanical

Board dimensions	2 in x 3.68 in x 0.60 in (50 mm x 93.5 mm x 15.25 mm)
Antennas (included)	• Magnetic base omni-directional • 3.3 ft (1.0 m) cable with SMA connector
SIM card	• AT&T

Ordering information

B444-A Plug-in cell module, AMEC LTE
This communication module provides secure two-way IP communication on North American wireless networks.
Order number **B444-A**

Accessories

B40-MB25 Outdoor multiband antenna, cell, 25ft
Provides wide bandwidth and low angle radiation pattern for indoor/outdoor applications. Supports 2G/3G/4G data communication, Domestic (US) LTE 700 band, Global LTE 2600 band, Domestic (US) Cellular, Global GSM, and WiMAX 2300/2500/2600 bands. Includes a 25 ft (7.6 m) cable, and a mounting bracket.
Order number **B40-MB25**

B40-MB50 Outdoor multiband antenna, cell, 50ft
Provides wide bandwidth and low angle radiation pattern for indoor/outdoor applications. Supports 2G/3G/4G data communication, Domestic (US) LTE 700 band, Global LTE 2600 band, Domestic (US) Cellular, Global GSM, and WiMAX 2300/2500/2600 bands. Includes a 50 ft (15.2 m) cable, and a mounting bracket.
Order number **B40-MB50**

B40-P Outdoor puck antenna, cell, 6.5ft
Omnidirectional, low profile antenna for metallic indoor/outdoor surface mounting. Supports LTE, and 2G/3G/4G data communication. Operates over 698-960 MHz and 1710-2170 MHz bands.
Order number **B40-P**

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