

# B9512G Control Panels

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**BOSCH**  
Invented for life



- ▶ Fully integrated intrusion, fire, and access control allows users to interface with one system instead of three
- ▶ Supports up to 599 points using a combination of hardwired or wireless points for installation flexibility, and up to 32 areas and 32 doors for up to 2,000 users
- ▶ On-board Ethernet port for Conetix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/IPv4, AutoIP, and Universal Plug and Play
- ▶ Installer-friendly features including on-board USB for easy on-site RPS programming, plus plug-in PSTN and Cellular communication modules for simple installation and future proof upgrades
- ▶ Email and text notifications as well as remote control of your system using Android or iOS mobile devices

The B9512G Control Panel and the B8512G Control Panel are the new premier commercial control panels from Bosch. B9512G control panels integrate intrusion, fire, and access control providing one simple user interface for all systems.

With the ability to adapt to large and small applications, the B9512G provides up to 599 individually identified points that can be split into 32 areas. The control panel includes a built-in Ethernet port for IP network communications, and is compatible with modules that send events to selected public switched telephone networks (PSTN), IP networks, or cellular network destinations through four programmable route groups.

For users, programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy. With the B9512G Control Panel, you can:

- Monitor alarm points for intruder or fire alarms while operating keypads and other outputs (up to 599 programmable outputs including three on-board).
- Program all system functions local or remote using Remote Programming Software (RPS) or by using basic programming through the keypad.
- Add up to 32 doors of access control using the optional B901 Access Control Module. (Optionally use the D9210C Access Control Interface Module for up to eight of the 32 doors.)

The B9512G is a direct replacement for previous G Series control panel models D9412GV4, D9412GV3, D9412GV2, and D9412G.

## Functions

### Programmable outputs

- Four alarm-output patterns
- Programmable bell test

### System response

- High-performance micro-controller provides industry leading system response
- 63 point indexes
- Selectable point response time
- Selectable EOL resistor configuration, single or dual
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide (NFPA 720)
- Watch mode
- Scheduled events (SKEDs) perform several functions, such as turn on (arm) the system, turn off (disarm) the system, bypass and unbypass points, and control outputs

### User interface

- Supervision of up to 32 keypads
- Custom keypad text is fully programmable through RPS
- Full function menu including customizable shortcuts
- Authority by area and 32 character name for each user
- 14 custom authority levels control user's authority to change, add, or delete passcodes to disarm or bypass areas, and to start system tests
- Programmable primary and secondary language by user and keypad; select from English, Spanish, French, and Portuguese

### Area configuration

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. Link multiple areas to a shared area which is automatically controlled (hallway or lobby). 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 assigned in the door and keypad's assigned area.

### 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 index 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 2,000 users. Each user can have a personalized passcode, a wireless keyfob, and a credential to control the system. You can assign passcodes to one of 14 customized authority levels in each area that can be restricted to operate only during certain times. You can program a primary and secondary language for each user and by keypad (select from English, Spanish, French, and Portuguese). The keypad changes to the user's programmed language when the user enters his passcode or holds the Help key.

### Communication formats

The control panel prioritizes and sends reports to four route groups. Network and phone communications can use either the Modem4 or the Contact ID communications formats. Each group has a programmable primary and backup destination. The control panel provides flexible communications for most central stations with reporting capabilities such as:

- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports



#### Notice

For premises equipment used in the communication path, such as routers, use only UL listed equipment.

### IP communication

The control panel can use on-board Ethernet (IP) connection (the on-board Ethernet port is excluded on “E” versions) to communicate with a Conetrix D6600 or a Conetrix D6100IPv6 Communications Receiver/Gateway.

The control panel can optionally use a B426 Conetrix Ethernet Communication Module or a Conetrix Plug-in Cellular Communicator (B440/B441/B442/B443). Using Conetrix IP communication offers a secure path that includes anti-replay/anti-substitution features and provides enhanced security with 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. IP Setup is easy, eliminating the need to use complicated internet programming tools such as ARP and Telnet. 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 32 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

The system allows remote firmware updates through Remote Programming Software (RPS) using the RPS Firmware Update Wizard. The Firmware Update Wizard uses the on-board USB connection or the on-board Ethernet (IP) connection (the on-board Ethernet port is excluded on “E” versions) to transmit firmware updates.

The control panel can optionally receive firmware updates from RPS using a B426 Conetrix Ethernet Communication Module or a Conetrix Plug-in Cellular Communicator (B440/B441/B442/B443). **Notice!** Cellular firmware updates require more time than Ethernet updates and carrier data rates apply.

- Control panel updates. Remotely update the control panel firmware for easy feature enhancements without replacing ROM chips.
- Module update support. Remotely update the firmware on connected SDI2 modules for easy feature enhancements without visiting each individual module.

### A wide variety of input options

Each point:

- Accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision.
- Accepts programming for fire, gas, fire supervisory, or intrusion applications.
- Supports hardwired and wireless devices.
- Supports IP cameras by Bosch as point sources.

### IP camera support

The control panel can use its on-board Ethernet to connect directly to Bosch IP cameras. The control panel communicates with Bosch IP cameras, allowing the camera’s video motion detection to activate points on the control panel and control panel events 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 591 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 up to 10192 local and reported events. The event log includes 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.

### Scheduled events (SKEDs)

The internal clock and calendar start individually scheduled events (SKEDs). SKEDs perform functions such as turn on or off, relay control, or point bypassing.

The control panel offers:

- 80 scheduled events with up to 31 different functions
- 32 opening windows and 32 closing windows
- 32 user group windows
- Day-of-week, date-of-month, or holiday only schedules
- 8 holiday schedules 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.

### 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.

### 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 unbyypass points.
- Lock and unlock doors (Bosch VMS 6.0 and higher).

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](http://www.boschsecurity.com).
- Access to Remote Programming Software (RPS).

### Certifications and approvals

Region	Certification
USA	ANSI/SIA CP-01-2010-Control Panel Standard - Features for False Alarm Reduction

Region	Certification
Europe	CE EMC, LVD, RoHS B9512G, B9512G-E, B8512G, B8512G-E
Australia	RCM
USA	UL UL 294 - Standard for Access Control Units and Systems
	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 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
	UL UL 1635 - Standard for Digital Alarm Communicator System Units
Canada	CSFM California State Fire Marshall (see our website)
	FCC Part 15 Class B
	FDNY-CoA Fire Department of New York City
	ULC CAN/ULC S303 - Local Burglar Alarm Units and Systems
	ULC CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm
Canada	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

### Parts included

The B9512G includes the following:

Quant.	Component
1	B9512G

- 1 Literature pack
- UL Installation Guide
  - ULC Installation Guide
  - Owner's Manual
  - Release Notes
  - SIA Quick Reference Guide

- 1 Literature CD containing product literature

Each B9512G-E control panel kit includes the following:

Quant.	Component
1	B9512G-E (without on-board Ethernet port)
1	Plug-in communicator (telephone or cellular, depending on the kit)
1	Plug-in Transformer (16.5 VAC 40 VA)
1	Control panel enclosure
1	Literature pack <ul style="list-style-type: none"> <li>• UL Installation Guide</li> <li>• ULC Installation Guide</li> <li>• Owner's Manual</li> <li>• Release Notes</li> <li>• SIA Quick Reference Guide</li> </ul>
1	Literature CD containing product literature

## Technical specifications

### Properties

Dimensions	10.625 in x 7.75 in x 1.875 in (26.99 x 19.69 x 4.76 cm)
Weight	1.95 lbs (0.88kg)

### Environmental considerations

Relative humidity	5% to 93% at +32°C (+90°F)
Temperature (operating)	0°C to +49°C (+32°F to +120°F)

### Power requirements

Current (maximum)	Standby: 180 mA Alarm: 260 mA
Output (alarm)	2 A at 12 VDC
Output (auxiliary, continuous power, and switched auxiliary combined)	1.4 A at 12 VDC nominal
Voltage (operating)	12 VDC nominal
Voltage (AC)	16.5 VAC 40 VA plug-in transformer (D1640/D1640-CA)

## Wiring

Terminal wire size	12 AWG to 22 AWG (2.0 mm to 0.65 mm)
SDI2 wiring	Maximum distance – Wire size (unshielded wire only): 7,500 ft (2,286 m) – 22 AWG (0.65 mm)

## Communications

Ethernet	One on-board Ethernet connector*
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## Number of...

Areas	32
Custom functions	32
Keypads	32 keypads, including 16 SDI keypads
Events	Up to 10,192
Passcode users	2000, plus 1 Installer passcode
Points	599 (8 on-board, up to 591 off-board)
Programmable outputs	599 (3 on-board, up to 596 off-board)
RF points	591
SKEDs	80

\*The “E” control panels do not include an on-board Ethernet connector.

## Ordering information

### B9512G Control Panel

The B9512G is available individually or in kits. For kits, refer to *Quick Selection Guide (B9512G/ B8512G Kits)* on the Documents tab of the control panel's Product Page at [us.boschsecurity.com](http://us.boschsecurity.com). Order number **B9512G**

### B9512G-E Control Panel

The B9512G-E is available only in kits. For kits, refer to *Quick Selection Guide (B9512G/ B8512G Kits)* on the Documents tab of the control panel's Product Page at [us.boschsecurity.com](http://us.boschsecurity.com). Order number **B9512G-E**

## Accessories

### B520 Auxiliary Power Supply Module

Provides auxiliary power to 12VDC devices or to SDI2 modules. Order number **B520**

### B208 Octo-input Module

Provides 8 programmable inputs. Order number **B208**

### B308 Octo-output Module

Provides 8 programmable relays. Order number **B308**



**SDI2 Inovonics Interface and Receiver Kit**

Kit containing B820 and EN4200 for use on SDI2 bus panels.

Order number **ENKIT-SDI2**

**D122 Dual Battery Harness**

Harness with circuit breaker. Connects two batteries to a compatible control panel.

Order number **D122**

**D122L Dual Battery Harness with Long Leads**

Color-coded harness with circuit breaker and leads measuring 89 cm (35 in.). Connects 12 V batteries to compatible control panels.

Order number **D122L**

**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**

**D1218 Battery (12 V, 18 Ah)**

A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors

Order number **D1218**

**D1238 Battery (12 V, 38 Ah)**

A 12 V sealed lead-acid battery for standby and auxiliary power with two bolt-fastened terminals. Includes hardware for attaching battery leads or spade connectors.

Order number **D1238**

**D137 Mounting Bracket**

Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.

Order number **D137**

**D138 Mounting Bracket, Right Angle**

Used to mount accessory modules in D8103, D8108A, and D8109 enclosures.

Order number **D138**

**D1640 Transformer**

System transformer rated at 16.5 VAC, 40 VA.

Order number **D1640**

**D8004 Transformer Enclosure**

For applications such as fire alarm that might require a transformer enclosure.

Order number **D8004**

**D9002-5 Mounting Skirt**

Mounts inside B8103, D8103, D8108A, and D8109 enclosures. Can accept up to six standard 7.62 cm x 12.7 cm (3 in. x 5 in.) cards.

Order number **D9002-5**

**D101 Lock and Key Set**

Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.

Order number **D101**

**D110 Tamper Switch**

Screw-on tamper switch that fits all enclosures.

Shipped in packages of two.

Order number **D110**

**ICP-EZTS Dual Tamper Switch**

Combination tamper switch with a wire loop for additional tamper outputs.

Order number **ICP-EZTS**

**B8103 Enclosure**

White steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

Order number **B8103**

**D8103 Enclosure**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.).

Order number **D8103**

**D8108A Attack Resistant Enclosure**

Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes lock and key set. B520, B4512, and B5512 require the B12 mounting plate.

Order number **D8108A**

**D8109 Fire Enclosure**

Red steel enclosure measuring 40.6 cm x 40.6 cm x 8.9 cm (16 in. x 16 in. x 3.5 in.). UL Listed. Includes a lock and key set.

Order number **D8109**

**BATB-40 Battery Box\Enclosure**

The BATB-40 Battery Box holds two dry or wet cell batteries. The box can be used with fire alarm systems or intrusion systems.

Order number **BATB-40**

**BATB-80 Battery Box\Enclosure with Shelf**

The BATB-80 Battery Box holds up to four dry or wet cell batteries. The box can be used with fire alarm systems or with intrusion systems.

Order number **BATB-80**

**Software Options****RPS Kit (USB)**

Account management and control panel programming software with USB security key (dongle).

Order number **D5500C-USB**

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