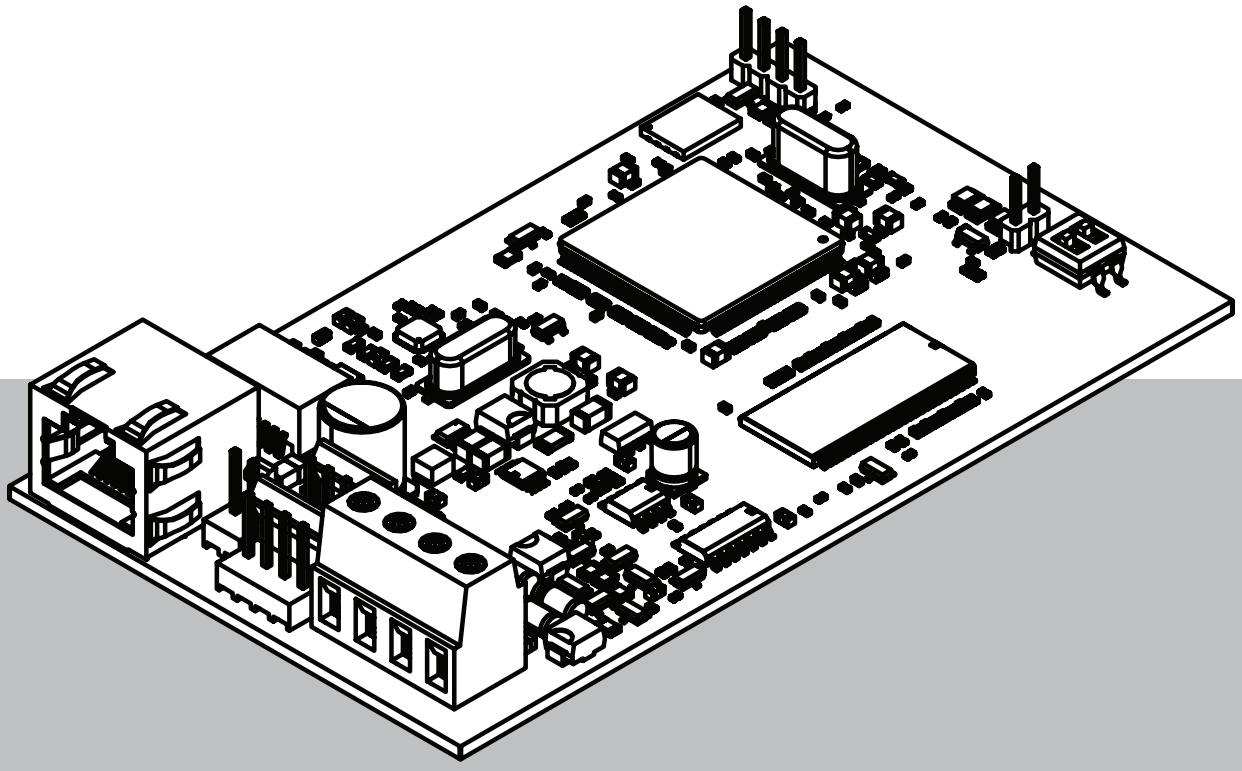
# Ethernet module, Cloud

B428-M



**en** Installation manual

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# 1 Safety

**ESD Precaution**



Please note that the module board comes without any case/box and all components are exposed for finger touches - therefore extra attention must be paid to ESD (electrostatic discharge) precaution. Make sure there is no static interference when using the board. Appropriate ESD protections must be taken and wearing electrostatic equipment is recommended, such as anti-static wrist strap.
ESD damage ranges from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.



**Warning!**
Failure to follow these instructions can result in a failure to initiate alarm conditions. Radionix B.V. is not responsible for improperly installed, tested, or maintained devices. Follow these instructions to avoid personal injury and damage to the equipment.



**Notice!**
Inform the operator and the local authority having jurisdiction (AHJ) before installing the module in an existing system.
Disconnect all power to the control panel before installing the module.
Before you install the module, refer to the technical specifications.

# 2 Introduction

This document contains instructions for a trained installer to install, configure, and operate this module.

## 2.1 About documentation

**Copyright**

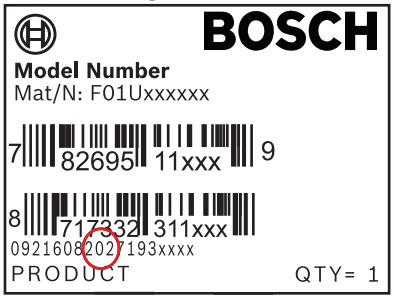
This document is the intellectual property of Radionix and is protected by copyright. All rights reserved.

**Trademarks**

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

## 2.2 Product manufacturing dates

For product manufacturing dates, go to https://www.keenfinity-group.com/xc/en/datecodes/ and refer to the serial number located on the product label.
The following image shows an example of a product label and highlights where to find the manufacturing date within the serial number.




**Corporate information**

Radionix B.V. is part of the Keenfinity group.

## 2.3 Installation workflow

To install and configure the module, use the workflow below.

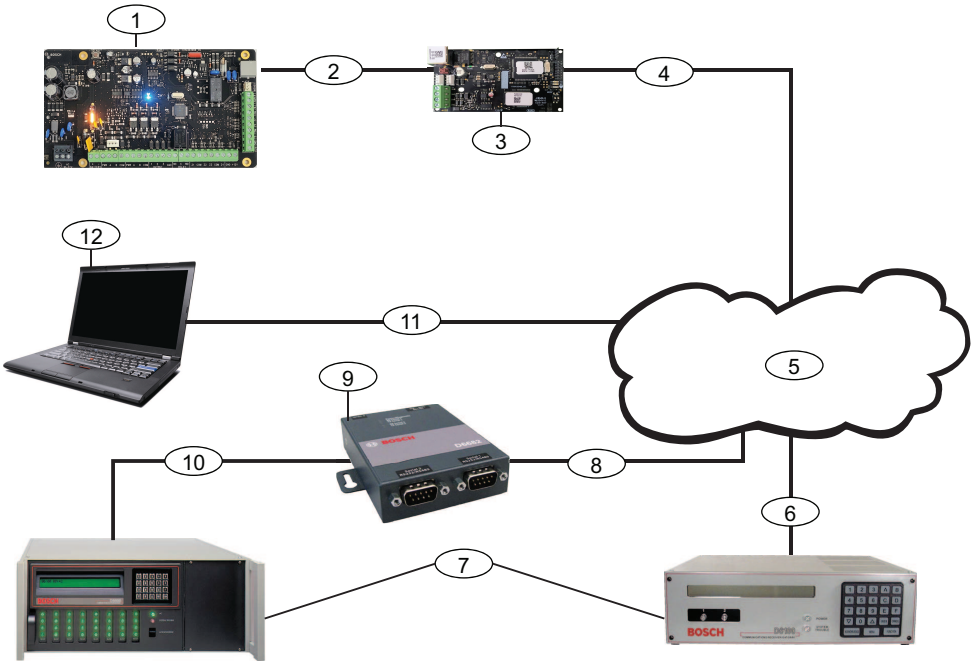
**Caution!**

Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

- ☐ Plan the installation.
- ☐ Set the address switch.
- ☐ Install the module.
- ☐ Connecting the module to the control panel.
- ☐ Configure the module.
- ☐ Use the LEDs to verify operation.

# 3 System overview

The module is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, AES encryption, and anti-substitution features make the module desirable for high security and fire monitoring applications. Use the module as stand-alone path or with another communication technology.




| | |
|---|---|
| 1 | Compatible control panel |
| 2 | Data bus connection between the control panel and the module |
| 3 | B428-M |
| 4 | Ethernet connection between the module and the Ethernet network |
| 5 | Ethernet network, Local Area Network (LAN), Metropolitan Area Network (MAN), Wide Area Network (WAN), or Internet |
| 6 | Ethernet network connection to the D6100i Communications Receiver (D6100i/D6100IPv6) |
| 7 | Conettix D6100i Communications Receiver/Gateway and/or Conettix D6600 Communications Receiver/Gateway (Conettix D6600 Communications Receiver/Gateway requires 8, 9, and 10) |
| 8 | Ethernet network connection to the Ethernet adapter (D6680/ITS-D6682/ITS-D6686) (ITS-D6682 shown) Ethernet Network Adapter |
| 9 | Conettix Ethernet Network Adapter (ITS-D6682 shown) |
| 10 | Connection from ITS-D6682 to the COM4 Port on the Conettix D6600 Communications Receiver/Gateway |
| 11 | Ethernet network connection between the host computer Ethernet network interface card (NIC) and the Ethernet network |
| 12 | Host PC running Remote Programming Software (RSC+ or Solution Connect), or the Conettix D6200 Programming/Administration Software |

## 3.1 Board overview

The B428-M Ethernet module is a four-wire powered SDI2 bus device that provides two-way communication with compatible control panels over IPv4 or IPv6 Ethernet networks.

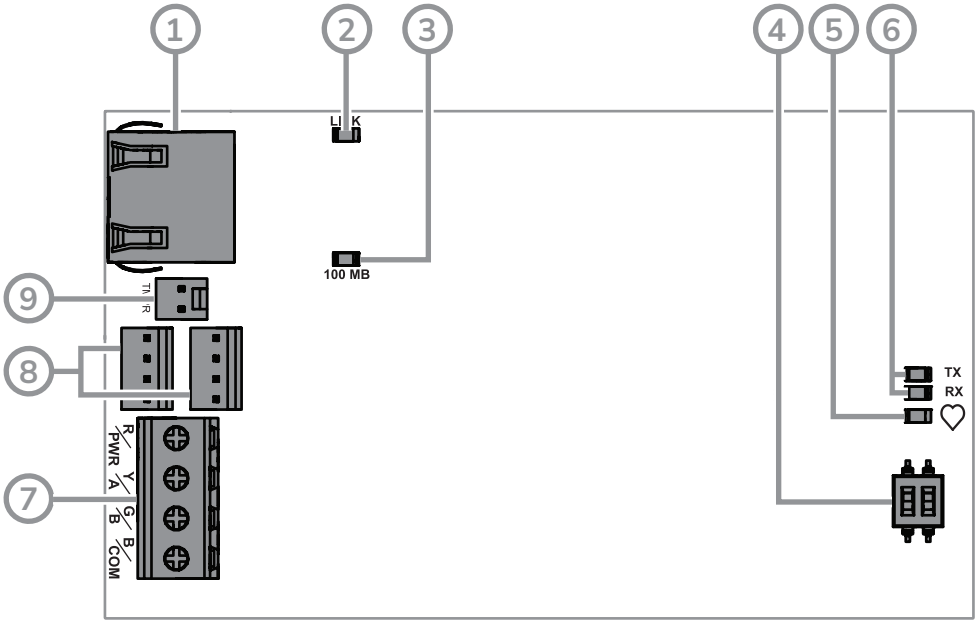



**Figure 3.1:** Board overview

| | |
|---|---|
| 1 | Ethernet RJ-45 port |
| 2 | Yellow LINK LED |
| 3 | Green 100 Mb LED |
| 4 | DIP switch |
| 5 | Heartbeat LED |
| 6 | TX and RX LEDs |
| 7 | Terminal strip (to control panel or additional modules) |
| 8 | Interconnect wiring connectors (to control panel or additional modules) |
| 9 | Tamper switch connector |

## 3.2 Address settings

Use the DIP switch to assign an SDI2 bus address to the module. The control panel uses this address to identify and poll the communicator.

**Notice!**
Each SDI2 module requires a unique bus address. Two communication devices cannot share the same address.
The microcontroller samples switch positions only during initialization. If you change a switch position while the module is powered, you must disconnect and restore power for the new address to take effect.

**DIP switch configuration**

The module features a 2-position DIP switch:

- **DIP 1:** Sets the module SDI2 bus address (Address 1 or Address 2).
- **DIP 2:** Reserved for future use. Always leave set to **OFF**.

| Position (DIP 1) | Position (DIP 2) | Assigned address | Panel Slot/Configuration Role |
|---|---|---|---|
| OFF | OFF | Address 1 | **Module 1 (Primary):** Default communicator slot.<br>Use this setting when the B428-M is the primary or sole communicator on the control panel. |
| ON | OFF | Address 2 | **Module 2 (Secondary):** Secondary/backup communicator slot.<br>Use this setting if another communicator (such as a B450-M cellular unit) is already addressed as Module 1. |

# 4 Installation

After you set the address switch for the proper address, install the module in the enclosure, and then wire it to the control panel and other devices.

## 4.1 Mount the module in the enclosure

Mount the module into the enclosure's 3-hole mounting pattern using the supplied mounting screws and mounting bracket.

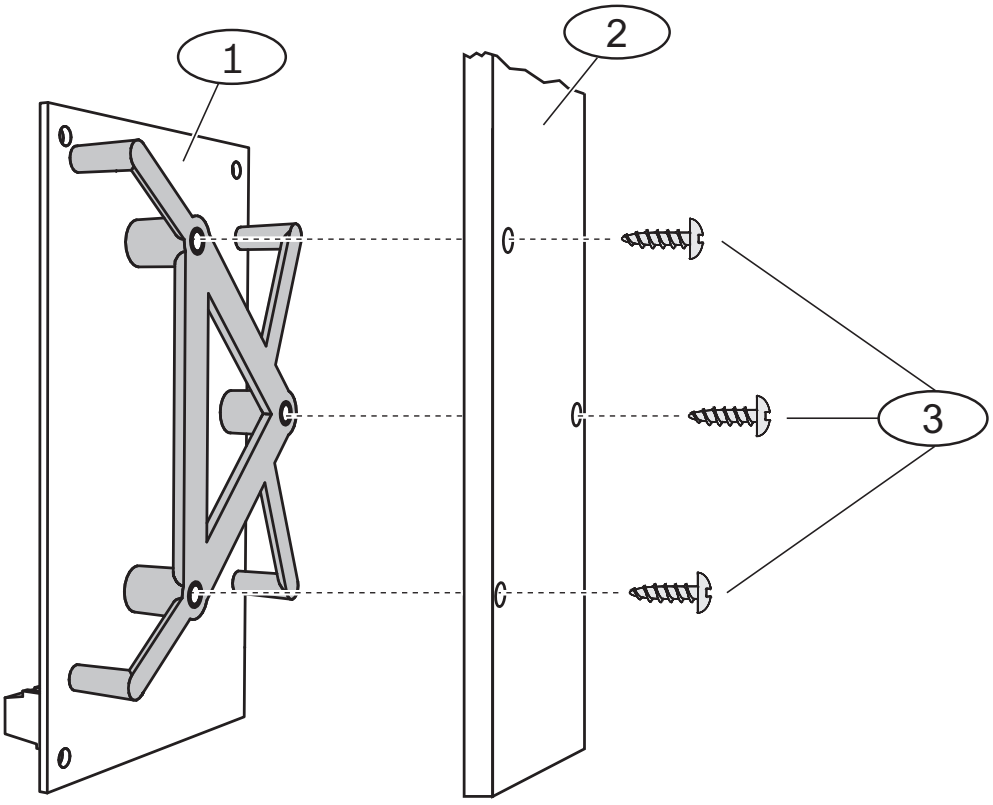



**Figure 4.1:** Mounting the module in the enclosure

| | |
|---|---|
| 1 | Module with mounting bracket installed |
| 2 | Enclosure |
| 3 | Mounting screws (3) |

## 4.2 Mount and wire the tamper switch (optional)

You can connect an enclosure door tamper switch for one module in an enclosure.

1. Mount the ICP-EZTS tamper switch into the enclosure's tamper switch mounting location.
2. Plug the tamper switch wire onto the module's tamper switch connector.

For complete instructions, refer to the ICP-EZTS Installation Guide (P/N: F.01U.003.734).

## 4.3 Wire to the control panel

When you wire the module to the control panel, you can use either the module's terminal strip labeled R, Y, G, B (PWR, A, B, COM) or the module's interconnect wiring connectors (wire included).

The figure below indicates the location of both the terminal strip and the interconnect connectors on the module.

**Notice!**
Use either the terminal strip wiring **or** interconnect wiring to the control panel. Do not use both. When connecting multiple modules, you can combine terminal strip and interconnect wiring connectors in series.

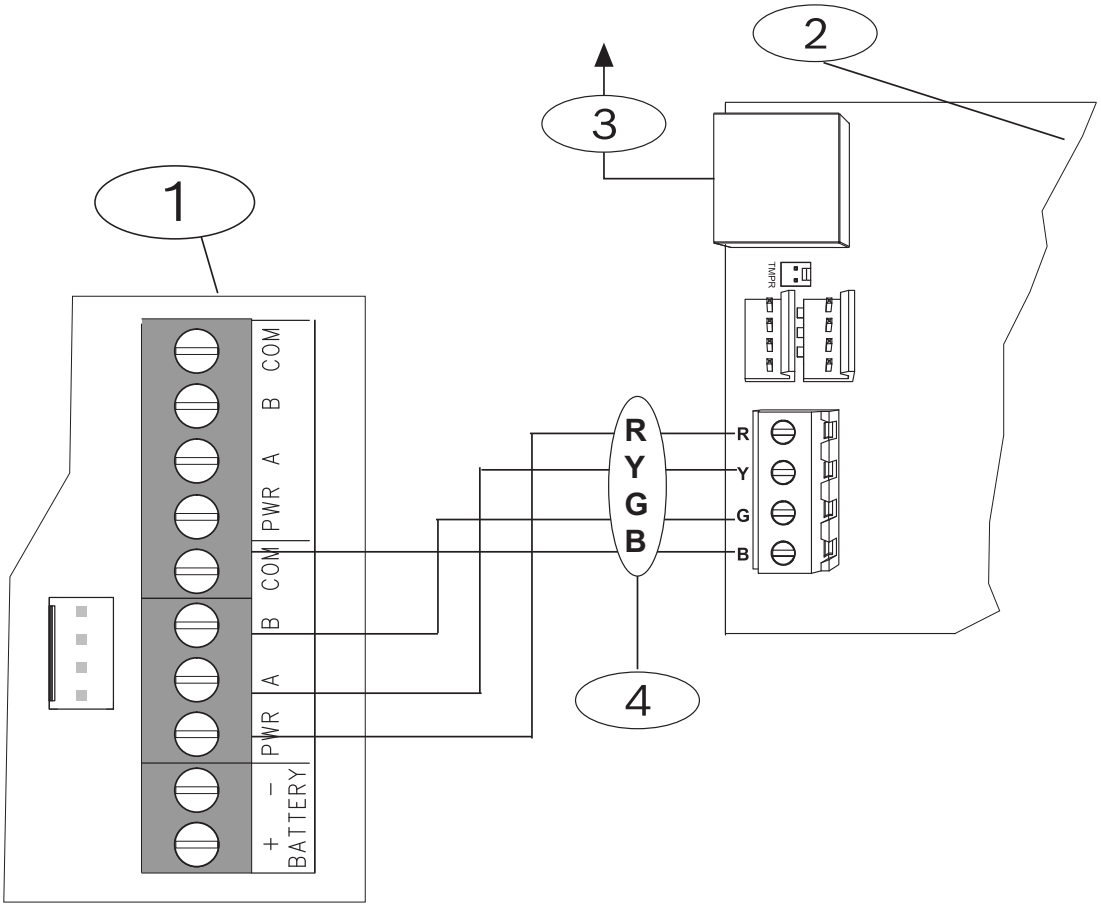



**Figure 4.2:** Using SDI2 terminal strip wiring

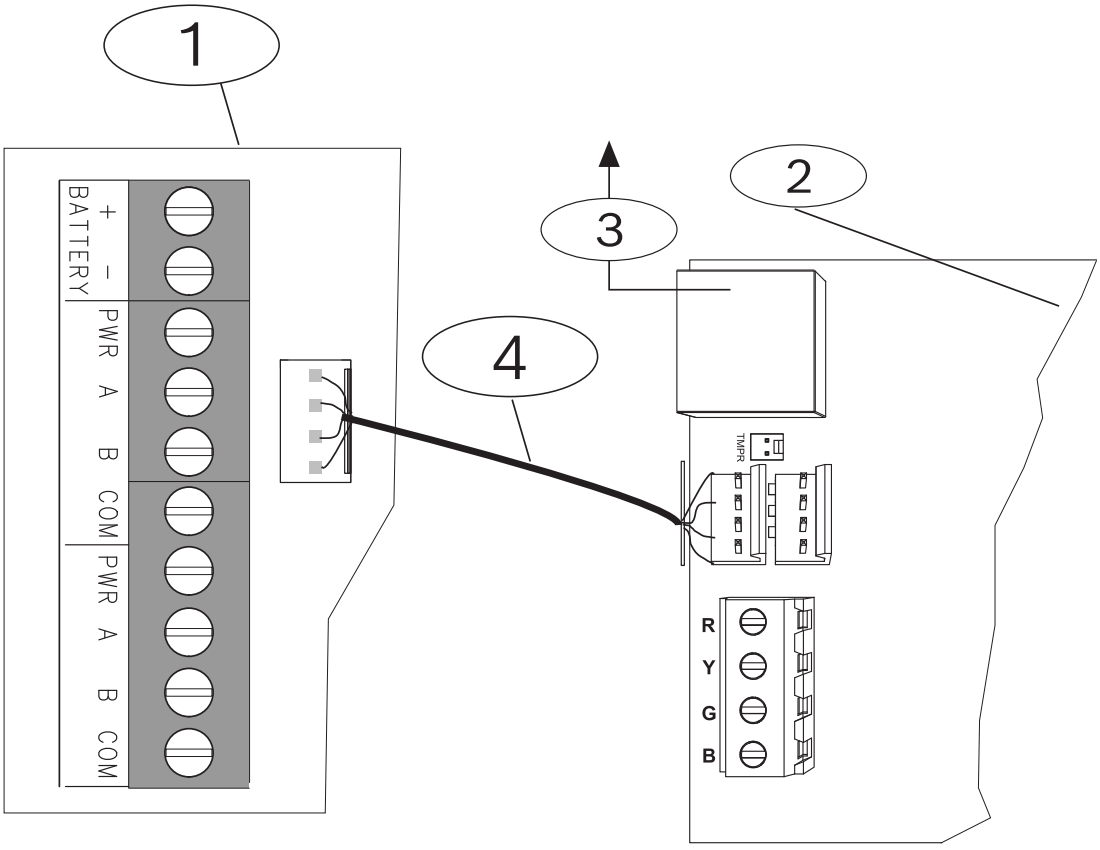



**Figure 4.3:** Using interconnect cable wiring

| | |
|---|---|
| 1 | Compatible control panel |
| 2 | Module |
| 3 | To Ethernet network |
| 4 | Terminal strip wiring / Interconnect cable (P/N: F.01U.079.745) (included) |

1. Connect the terminal wiring or the interconnect wiring to the module.
2. Connect the Ethernet cable to the Ethernet port on the module.

# 5 Configuration

Configure the module using one of the methods described in this section.

## 5.1 Plug and Play (PnP) configuration

With PnP, the module automatically imports the control panel settings for the module and applies them to the module.

1. Set the address switch to the correct address for the control panel.
2. Connect the module to the control panel bus and apply power.
3. Program the control panel communication settings using A-Link Plus or the keypad.

**Notice!**

By default, when you connect a field replacement module to an existing SDI2 bus control panel, the control panel overrides the module settings.

To keep custom module settings when you connect a module to a configured control panel, you must disable the feature for PnP configuration, by using A-Link Plus to set the Panel Programming Enable parameter to **Disable** before installing.

## 5.2 Webpage configuration (B428-M Interface_v1.00.000)

With webpage configuration, you can do quick configuration for the control panel, check control panel status, and upgrade the control panel firmware or module firmware.

Use a computer with an Ethernet cable connected directly from the computer to the module.

To use the module configuration pages, you need the module IP address or hostname.

Refer to either:

*Module hostname, page 33*
*Module IP address, page 33*

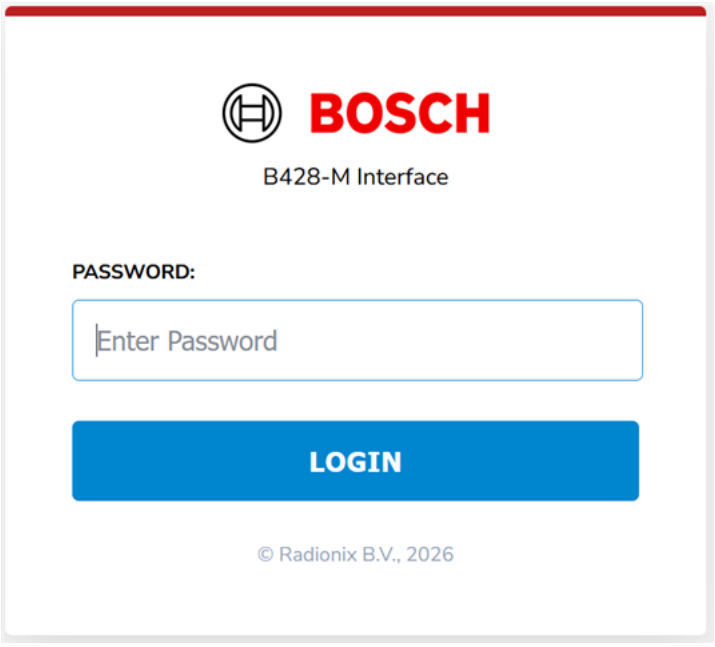
### 5.2.1 Get started

**Notice!**

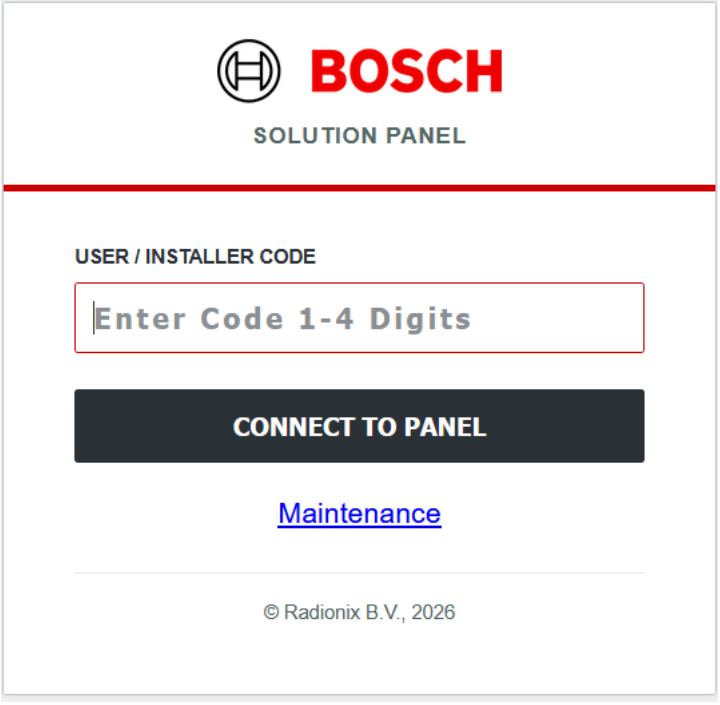
If the web browser does not connect to the module, change the web browser configuration so that it does not use a proxy server. Refer to help for the browser for instructions on disabling proxy service.

**Logging into the web page**

1. Open an internet browser (Google Chrome or Microsoft Edge) and enter the module IP address (for example, https://192.168.1.xxx; or enter the address https://solution-setup.local, and accept any browser security dialog if applicable). The **B428-M Interface** login page opens.




2. Enter the unique password that printed on the product label and click **LOGIN**. The SOLUTION PANEL connection page opens.




– With the installer code, you can access all webpages to do configuration for the control panel, check control panel status, and upgrade the firmware for the control panel or B428-M module.
– With the user code (Master code user only), you have limited webpages to access and do operations.
– “Maintenance” provides a quick link to the *Maintenance, page 25* to update control panel firmware or module firmware.

3. Enter your installer code, and click **CONNECT TO PANEL**, the **Dashboard** page opens.

**Using the web pages**

1. Review the information on the **Dashboard** page.
2. Use the navigation pane on the left to browse to the page for the setting to change.

3. Make changes as described in the following sections.
4. Click **Save changes**, the message "**Configuration saved to panel!"** pops up to show that changes are downloaded to the control panel.
5. Click **OK**, and browse to a different settings page to continue configuration. You must click **Save changes** to save edited values.

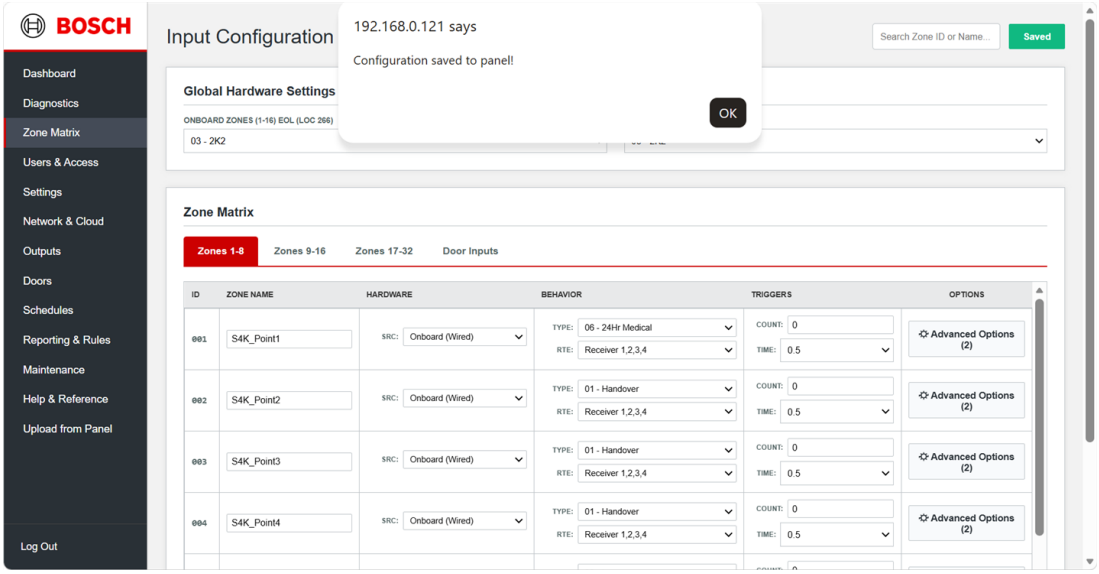



**Figure 5.1:** Download to panel message

The module might end the current browsing session. Log in again to make more changes.

**Notice!**

Before browsing to a new settings page, you must click **Save changes** to save edited values.

You should change your module password from the default to secure module configuration. Change the password using the **Network & Cloud** page -> **Web Access Password**.

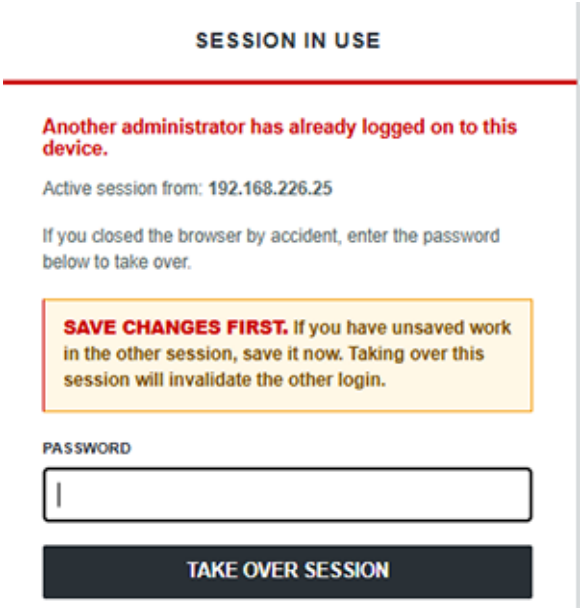
### Logging out and existing from the web page

1. Make sure that all the changes are saved for each settings page.
2. Click **Log Out**.

### Taking over session

Logging on to the device is only valid to one user.

Enter your password to log in again when below message pops up:




### 5.2.2 Dashboard

The **Dashboard** page shows system overview status:

- System state
- Mains power
- Cloud connection
- Active faults

The following tab icons are available for quick operation via single clicking:

- Arm / Disarm
- Test siren
- Test strobe
- Walk test
- Reset outputs
- Sync time

You can review recent history events and system information in respective tabs.

**Recent History**

5 latest panel events are displayed.

The events list refreshes automatically about every 10 seconds.

**System Info**

Live control panel and network information are displayed.

The information updates with the Dashboard refresh.

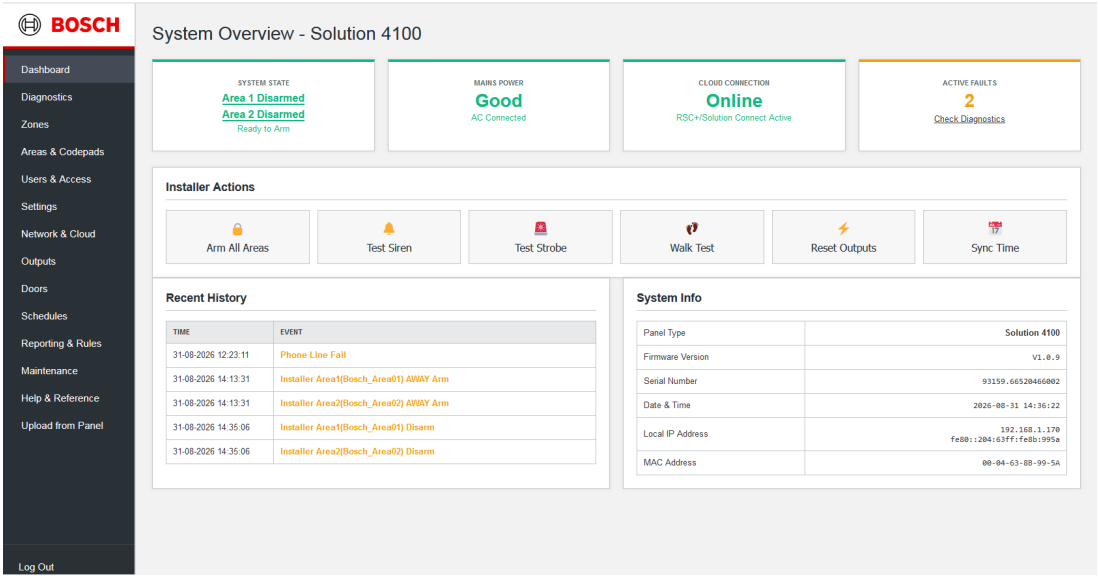



**Figure 5.2:** Dashboard page

**Refer to**

- *Help and Reference, page 26*
- *Maintenance, page 25*

## 5.2.3 Diagnostics

The **Diagnostics** page provides a general overview of your system:

- System health
- Zone status
- Fault status
- Event history
- RF device health

Make sure to click the **Refresh Data** in the upper-right corner to get the updated latest system information.

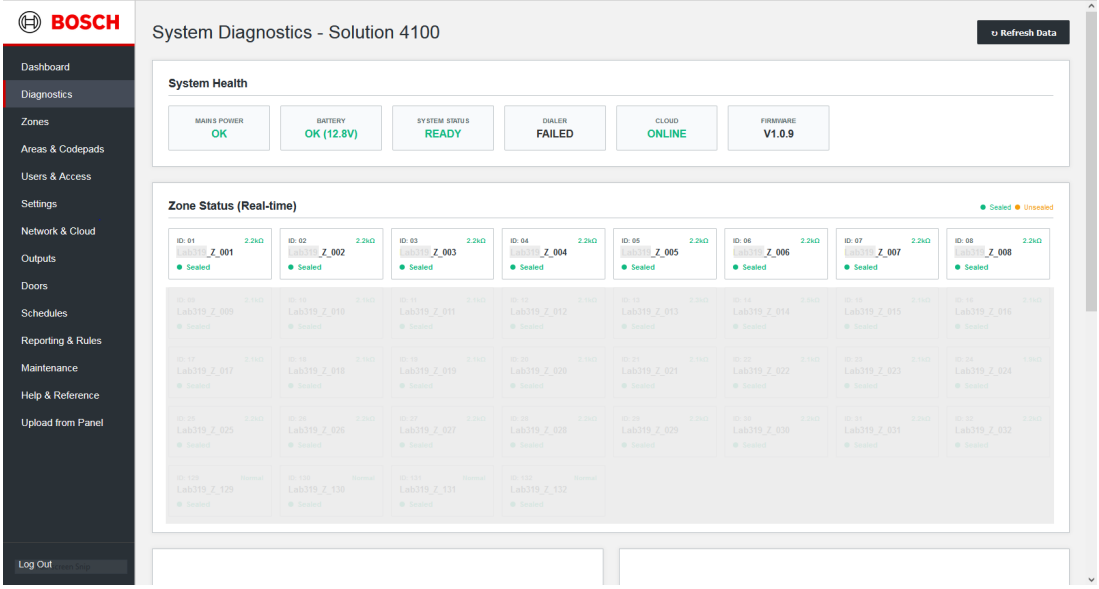



**Figure 5.3:** Diagnostics page_scroll up

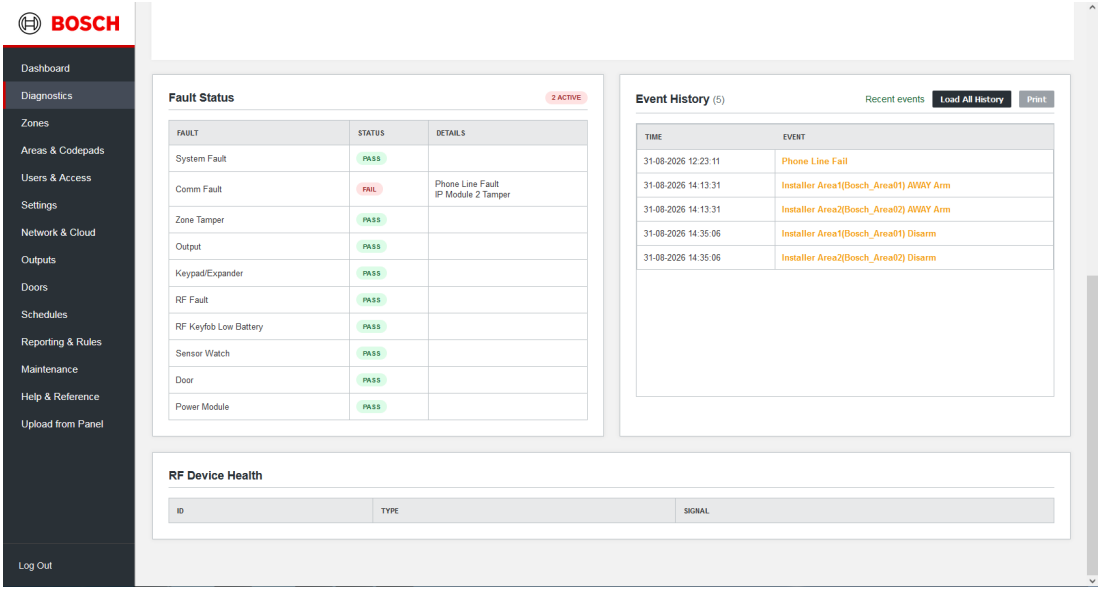



**Figure 5.4:** Diagnostics page_scroll down

**Refer to**

– *Help and Reference, page 26*

## 5.2.4 Zones

The **Zones** page provides onboard EOL and expanded module EOL options, and you can program the zones or door inputs in corresponding tabs.

In the upper-right corner, you can search the zone you need to do a quick configuration.

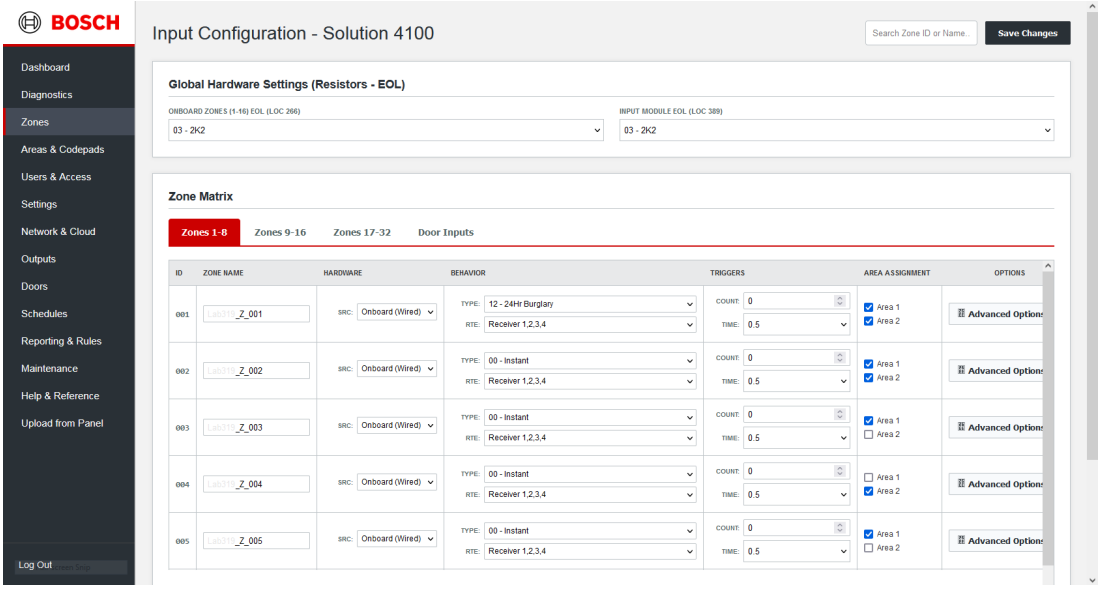



**Figure 5.5:** Zones page

**Refer to**

– *Help and Reference, page 26*

## 5.2.5 Areas and Codepads

The **Areas & Codepads** page provides settings for areas and codepad assignment to areas:

– Area names

– Area options
– Codepad assignment

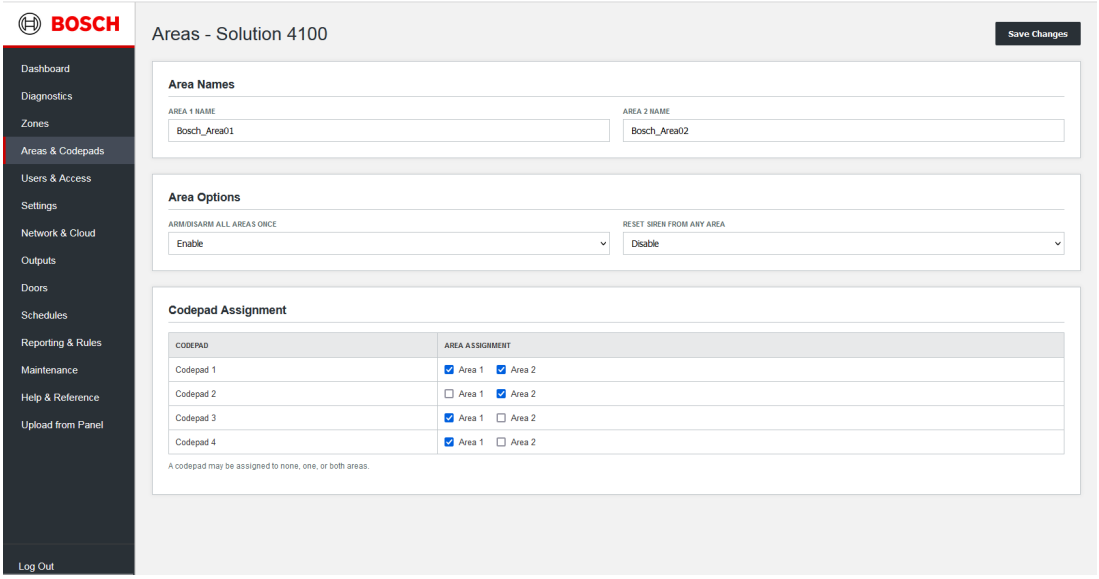



**Figure 5.6:** Areas & Codepads page

**Refer to**

– *Help and Reference, page 26*

## 5.2.6 Users and Access

The **Users & Access** page provides **User Management** to configure:

– Card type options for door access
– Installer (PIN CODE setting, ARM/DISARM Disable/Enable)
– User code and access authority

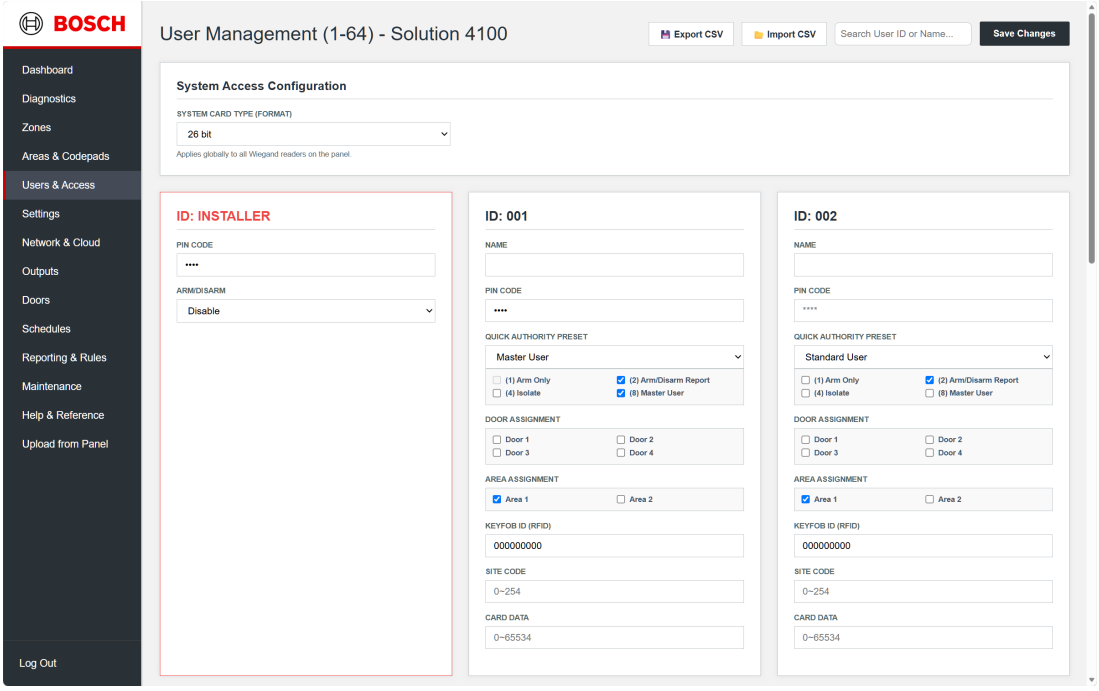



**Figure 5.7:** Users & Access page

**Refer to**

– *Help and Reference, page 26*

## 5.2.7 Settings

The **Settings** page provides system settings:

– System timers
– General system options
– Hardware
– Region

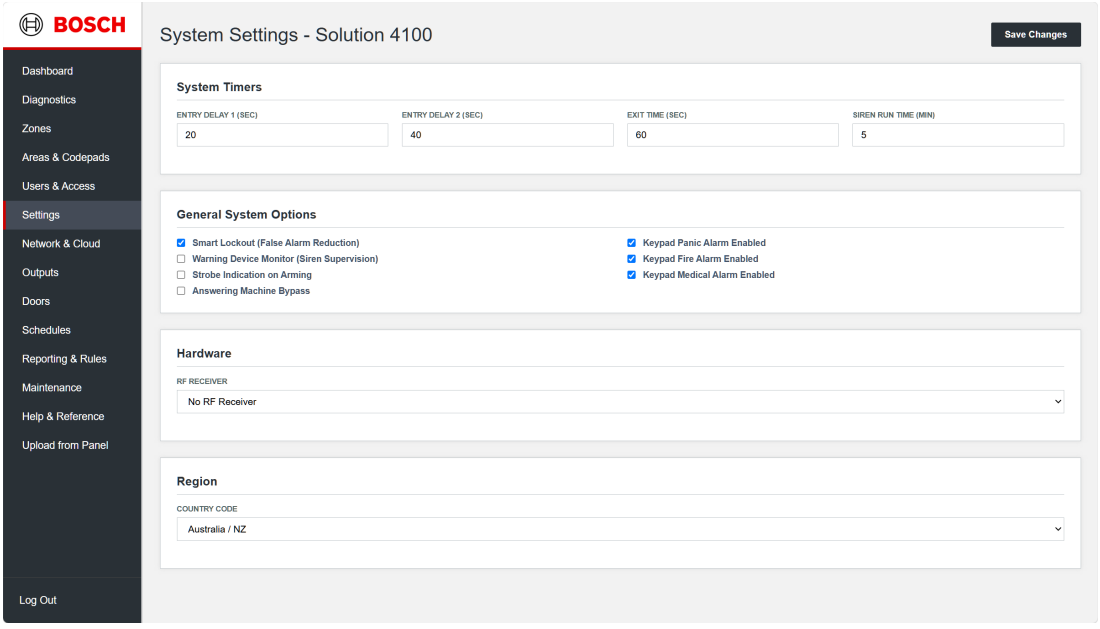



**Figure 5.8:** Settings page

**Refer to**

– *Help and Reference, page 26*

## 5.2.8 Network and Cloud

The **Network & Cloud** page provides cloud services to enable, and applicable options for network modules configuration:

– Module 1 (B428-M)
– Module 2 (B450-M)

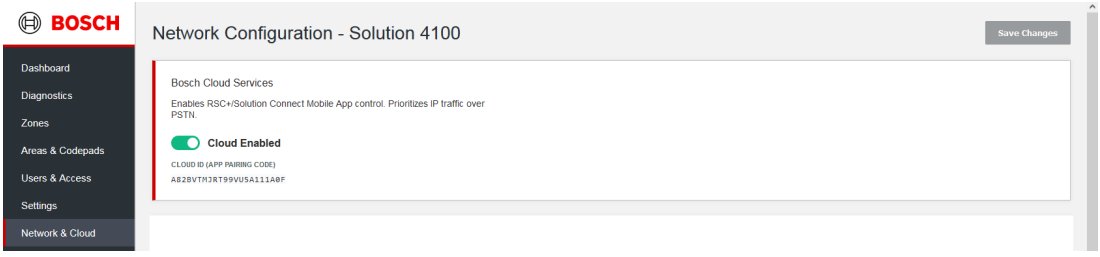



**Figure 5.9:** Network & Cloud page_scroll up

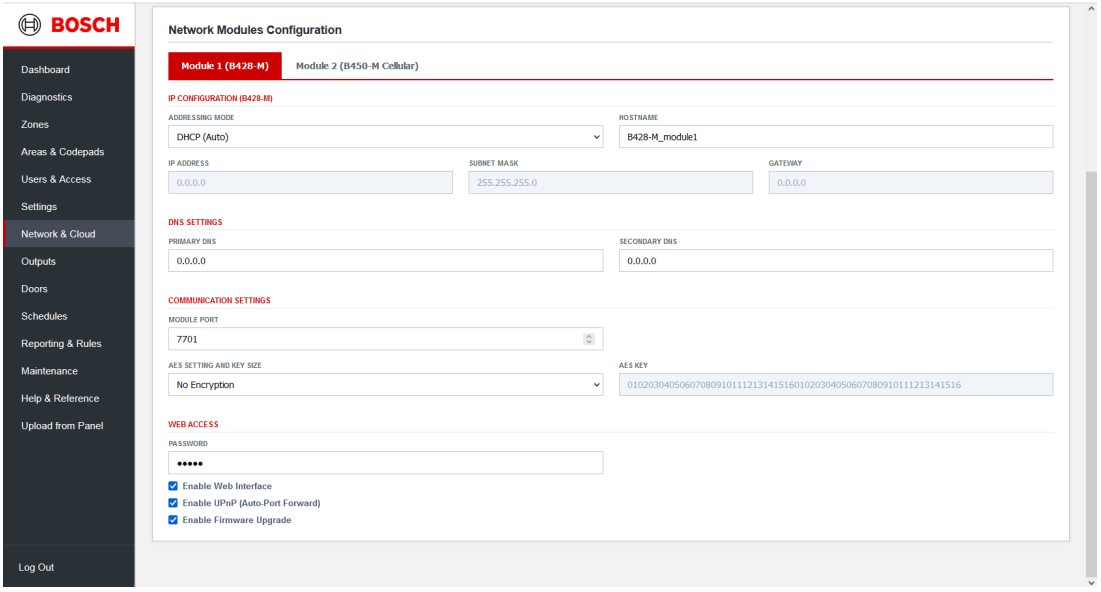



**Figure 5.10:** Network & Cloud page_scroll down

### Module 1 (B428-M)

| Addressing mode |
|---|

**Default**: DHCP (Auto)
**Selections**:

- DHCP (Auto) - DHCP automatically sets the IP Address, IP default Gateway, and Subnet Mask. AutoIP enables dynamic IP addresses to be assigned to devices at start-up.
- Static - Set this parameter to Static if there is no DHCP service. Manually set the IP Address, IP Default Gateway, and Subnet Mask.

DHCP requires a DHCP server.

**Notice!**
When you select **DHCP (Auto)**, the module does not use the IPv4 address, subnet mask or gateway. The corresponding fields on the page are disabled, but previously entered values are shown and cannot be changed. If you select **Static**, you must set the IPv4 address, subnet mask and gateway.

| IP address |
|---|

**Default**: 0.0.0.0
**Selections**: 0.0.0.0 to 255.255.255.255
If **DHCP (Auto)** is selected, this parameter is grayed out (no access to it).
If **Static** is selected, enter the IPv4 address here.

| Subnet mask |
|---|

**Default**: 255.255.255.0
**Selections**: 0.0.0.0 to 255.255.255.255
If DHCP (Auto) is selected, this parameter is grayed out (no access to it).

If **Static** is selected, enter the IPv4 sub-network mask here.

Gateway

**Default**: 0.0.0.0
**Selections**: 0.0.0.0 to 255.255.255.255
If DHCP (Auto) is selected, this parameter is grayed out (no access to it).
If **Static** is selected, enter the default gateway address here.

Module port

**Default**: 7700
**Selections**: 0 - 65535
For IP communications with RSC+ in typical installations, keep the module Port at the default.

Primary DNS / Secondary DNS

**Default**: 0.0.0.0
**Selections**: 0.0.0.0 to 255.255.255.255
A Domain Name Server (DNS) uses internet domain names or hostnames to supply corresponding IP addresses.
In DHCP mode, the DHCP server's default DNS is used. To use a custom DNS server in DHCP mode, enter the custom DNS server's IP address here.

Enable Web Interface

**Defaulted**: ticked (selected)
**Selections**: ticked/unticked
This parameter enables authorized users to view and modify the configuration parameters through the Web Interface.

Enable UPnP

**Defaulted**: ticked (selected)
**Selections**: ticked/unticked
Ticked (Enabled) - use UPnP to open a port forwarder for inbound RSC+ (Remote Security Control Plus) connections.
Unticked (Disabled) - do not use UPnP.
The UPnP parameter has no effect on event reporting to a central station receiver.

Enable Firmware Upgrade

**Defaulted**: ticked (selected)
**Selections**: ticked/unticked

Ticked (Enabled) - allows firmware upgrades to the B428-M or control panel.
Unticked (Disabled) - prevents firmware upgrades.
Enable or disable the ability to upgrade the module's firmware or panel's firmware from the **Maintenance** page.

**Notice!**
For settings on B450-M module and Email service, refer to the **Help & Reference** page.

**Refer to**
- *Help and Reference, page 26*
- *Maintenance, page 25*

## 5.2.9 Outputs

The **Outputs** page provides **Output Programming** for 4 onboard outputs, and additional outputs via B308 and B228 expansion modules.

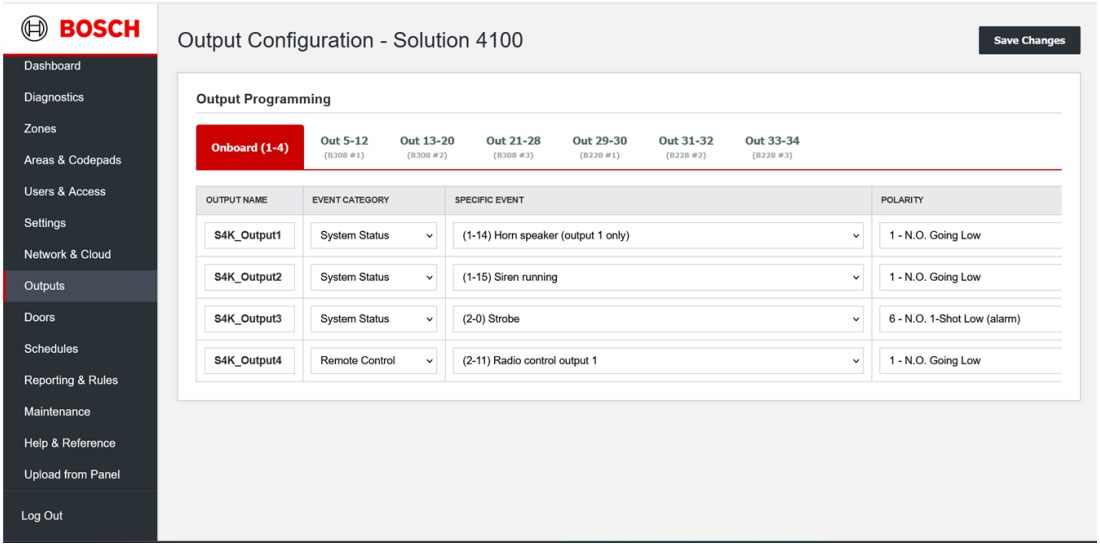



**Figure 5.11:** Outputs page

**Refer to**
- *Help and Reference, page 26*

## 5.2.10 Doors

The **Doors** page provides **Hardware Assignment** to assign the codepads to operate the associated door(s), and you can configure door parameters in the **Door Parameters Matrix.**

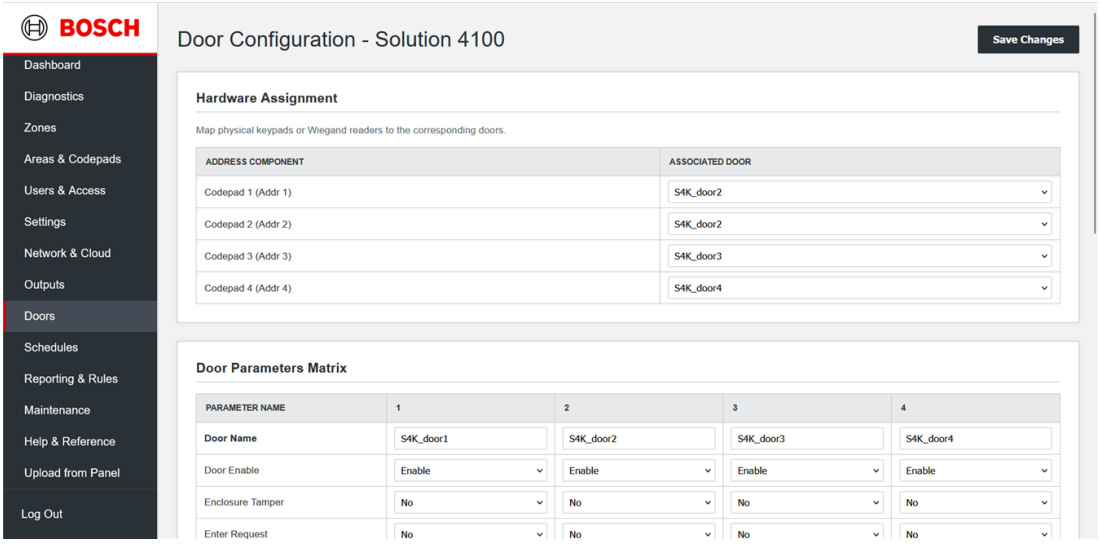



**Figure 5.12:** Doors page

**Refer to**

– *Help and Reference, page 26*

## 5.2.11 Schedules

The **Schedules** page provides settings for event schedules and Time:

– Event schedules
– User group definitions
– Holiday dates

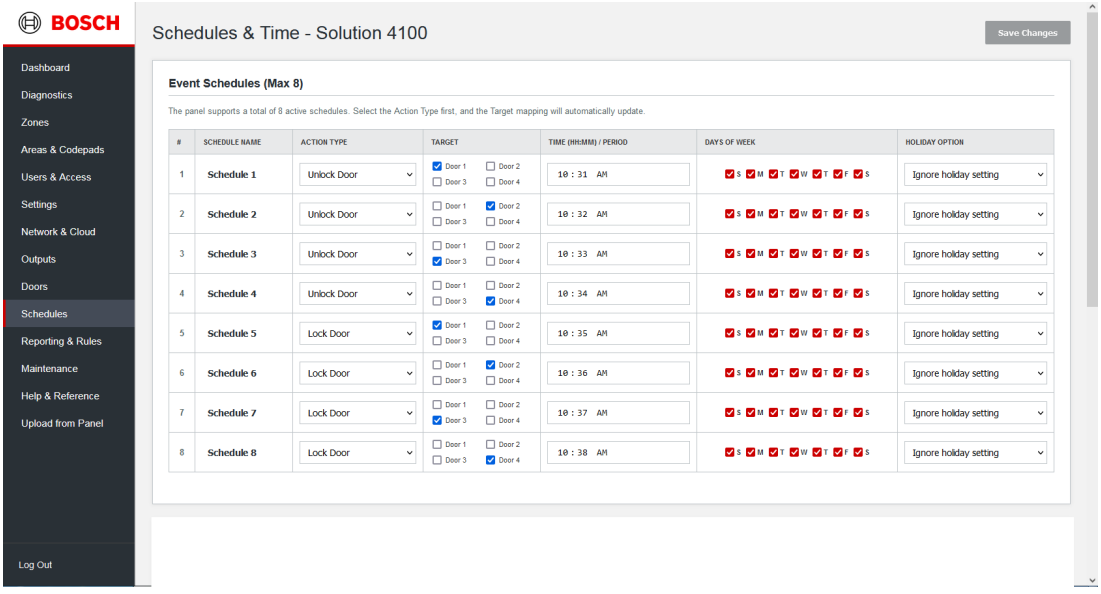



**Figure 5.13:** Schedules page_scroll up

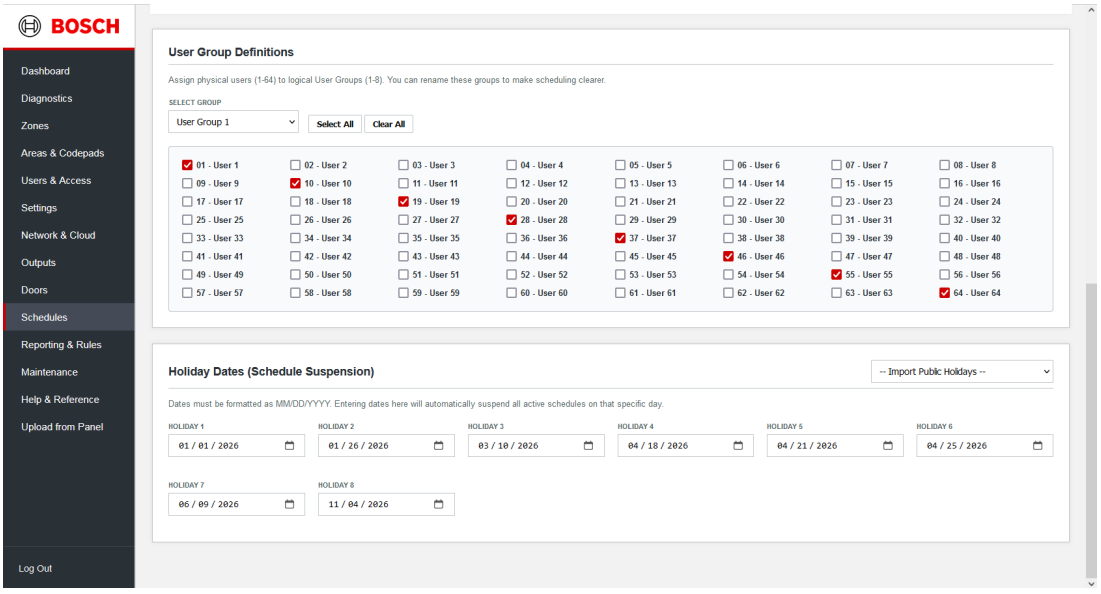



**Figure 5.14:** Schedules page_scroll down

**Refer to**

– *Help and Reference, page 26*

## 5.2.12 Reporting and Rules

The **Reporting & Rules** page provides subpages for you to set up reporting rules, and configure active communication paths:

– Global event reporting filters
– Central station reporting
– Email notifications (via IP Module 1)

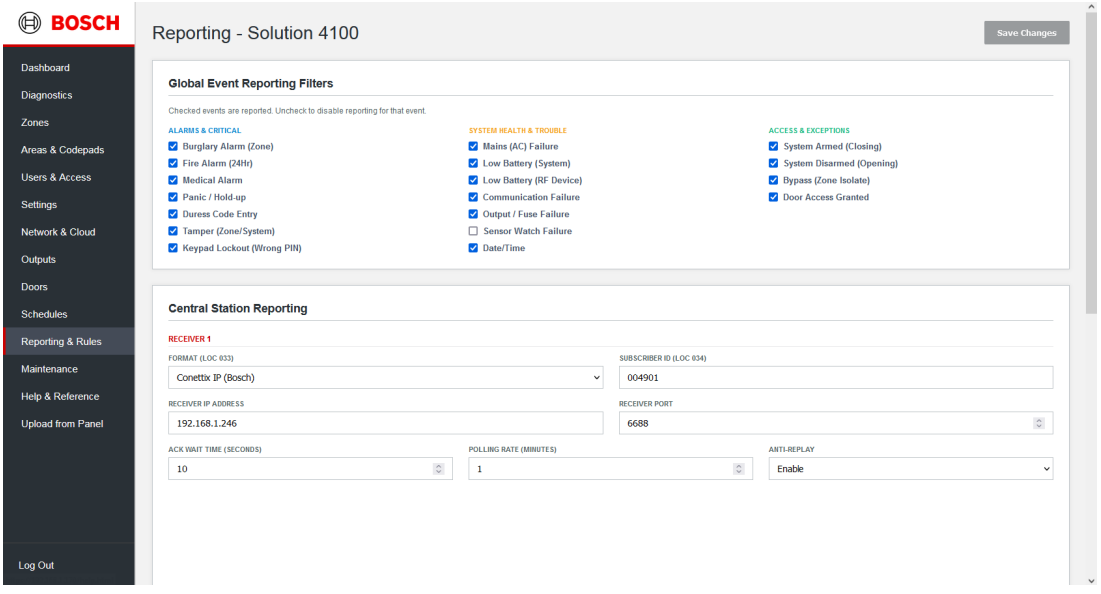



**Figure 5.15:** Reporting & Rules page_scroll up

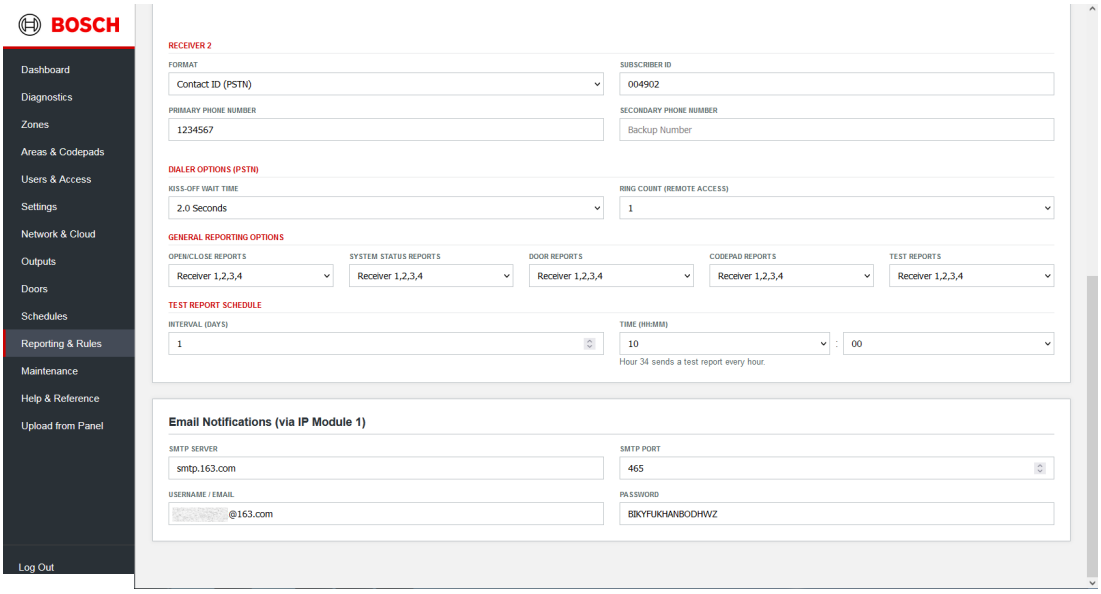



**Figure 5.16:** Reporting & Rules page_scroll down

**Refer to**

– *Help and Reference, page 26*

## 5.2.13 Maintenance

The **Maintenance** page provides parameters backup and restore:

– Download current control panel programming for backup.

– Upload backup configuration to overwrite control panel's current programming.

This page also provides convenient operations for:

– Control Panel Firmware Update

– Module Firmware Update.

– Factory Default (Installer Only)

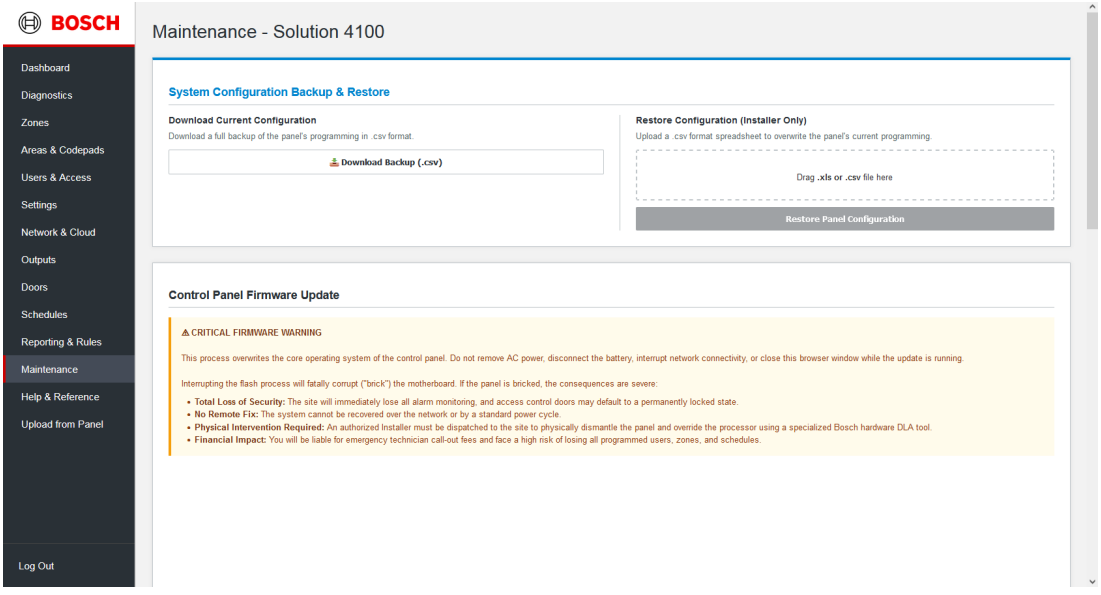



**Figure 5.17:** Maintenance page_scroll up

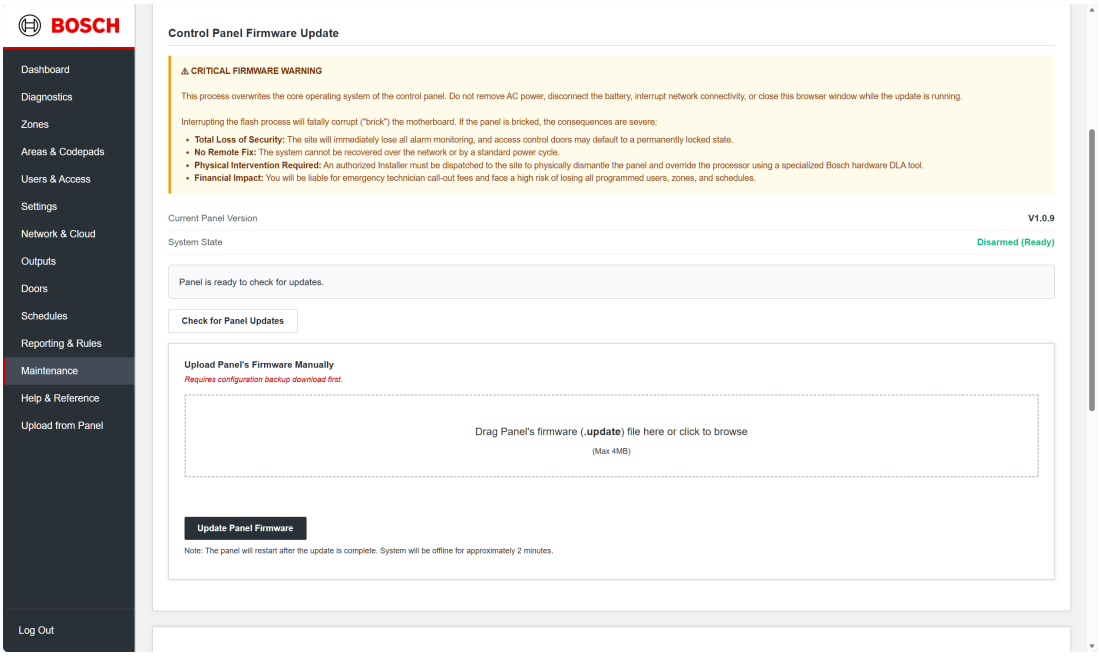



**Figure 5.18:** Maintenance page_scroll down

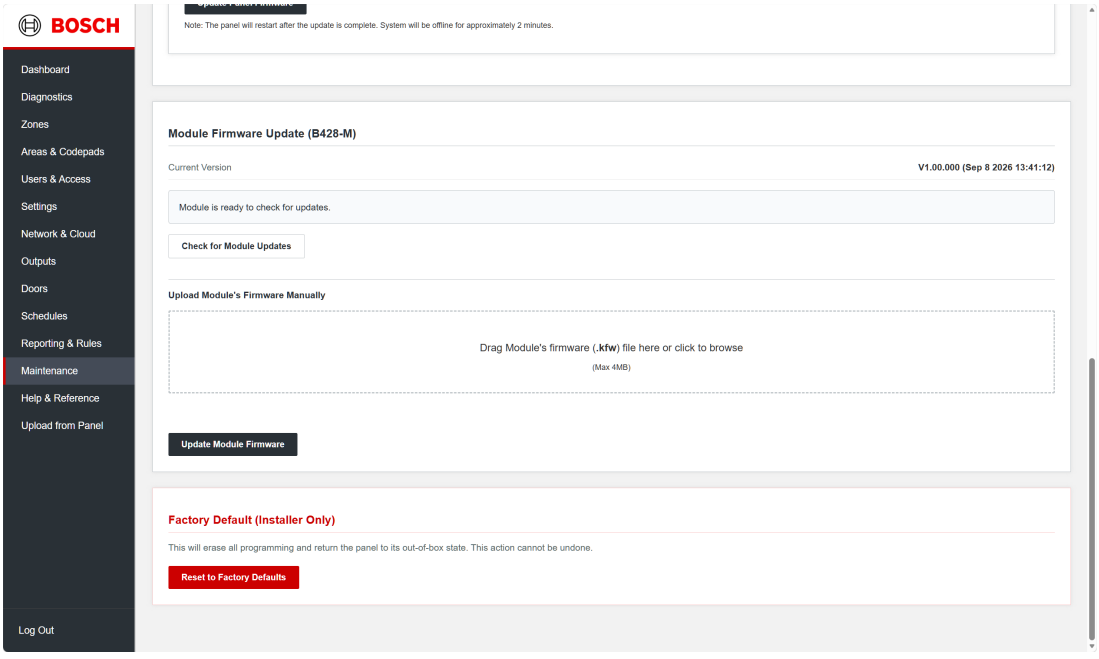



**Figure 5.19:** Maintenance page_scroll down

## 5.2.14 Help and Reference

The **Help and Reference** page provides detailed description for the parameters or operations on each web page; it also provides one tab for wiring information.

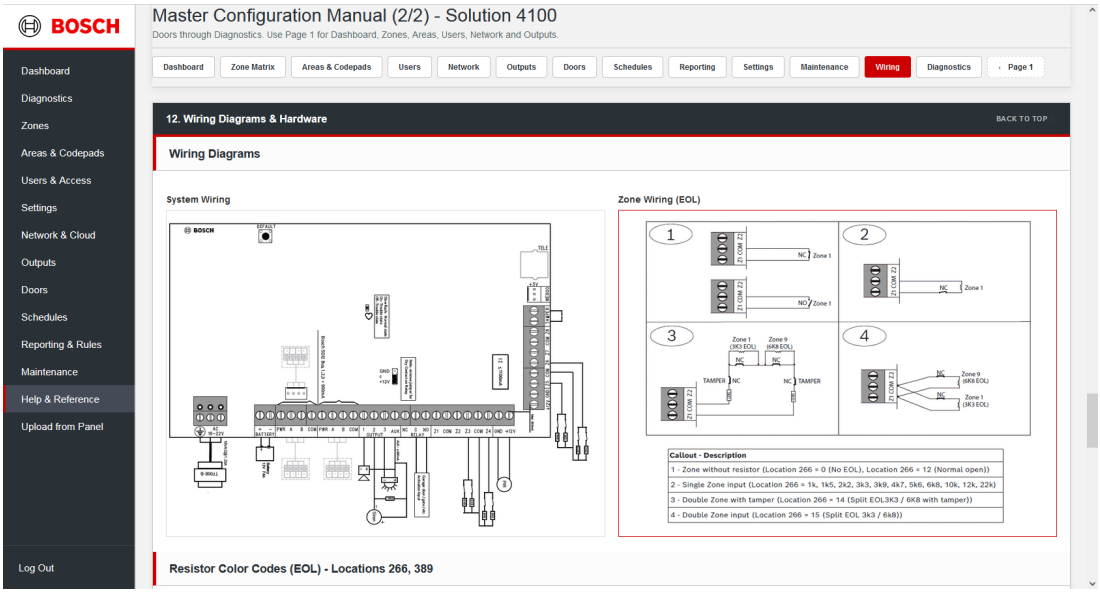



**Figure 5.20:** Help & Reference page

For complete control panel parameters, please check from respective control panel **Installation manual**.

## 5.2.15 Upload from Panel

Use the **Upload from Panel** page to upload the parameters from the control panel to the module.

1. Browser to the **Upload from Panel** page and click.
2. When the message "**Configuration upload finished!**" pops up, click **OK**.

The control panel overrides the module settings.

# 6 Maintenance and troubleshooting LEDs

The module has the following on-board LEDs to assist with troubleshooting:

- Heartbeat (system status).
- RX (receive).
- TX (transmit).

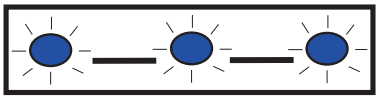
| Flash pattern | Function |
|---|---|
|  Flashes once every 1 sec | Normal state. Indicates normal operation state. |
|  3 quick flashes every 1 sec | Communication error state. Indicates a bus communication error. The module is not receiving commands from the control panel. |
|  On Steady | Trouble state. Indicates a trouble condition exists. |
|  Off | LED trouble state. Module is not powered, or some other trouble condition prohibits the module from controlling the heartbeat LED. |

**Table 6.1:** Heartbeat LED descriptions

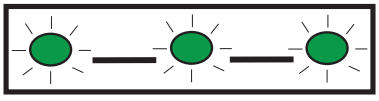
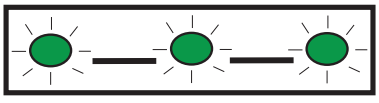
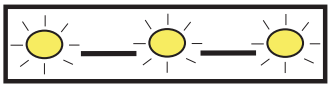
| Flash pattern | Function |
|---|---|
|  RX (Receive) Flashing | Occurs when the module receives a message over the network connection - UDP, TCP, or DNS. |
|  TX (Transmit) Flashing | Occurs when the module sends a message over the network connection - UDP, TCP, or DNS. |

**Table 6.2:** RX and TX LEDs descriptions

| LINK (yellow) LED pattern | 100 Mb (green) LED pattern | Function |
|---|---|---|
|  Off |  Off | No Ethernet link |
|  On Steady |  Off | 10Base-T link |
|  Flashing |  Off | 10Base-T activity |

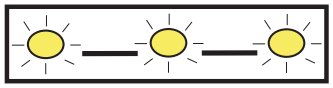
| LINK (yellow) LED pattern | 100 Mb (green) LED pattern | Function |
|---|---|---|
|  On Steady |  On Steady | 100Base-TX link |
|  Flashing |  On Steady | 100Base-TX activity |

**Table 6.3:** Ethernet Link LEDs descriptions

**Trouble conditions indicated through LEDs**

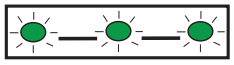
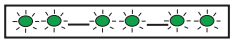
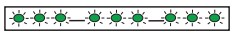
| Condition | Heartbeat | Transmit (TX) | Receive (RX) |
|---|---|---|---|
| Network cable disconnected |  On Steady |  Off |  Flashes once every 1 sec |
| Obtaining an IP address |  On Steady |  Off |  2 quick flashes every 1 sec |
| Low bus voltage |  On Steady |  Off |  3 quick flashes every 1 sec |
| Internal failure |  On Steady |  Off |  On Steady |

**Table 6.4:** Trouble conditions

**Notice!**
When the tamper switch is closed, all module LEDs are Off.

## 6.1 View the firmware version

To check the module firmware version, do one of the following:

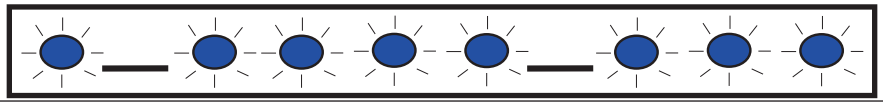
- Check the module firmware current version from **Maintenance** page.
- Momentarily short the tamper pins on the module.
  - The LEDs can flash in a pattern to show the module firmware version.

**Showing the module version with a LED flash pattern**

The heartbeat LED stays Off for 3 seconds.

The LED pulses the major, minor, and micro digits of the firmware version, with a 1-second pause after each digit. For example, the version 1.4.3 shows as follows.

[3 second pause] *__****__*** [3 second pause, then normal operation].



**Refer to**

– *Maintenance, page 25*

# 7 Specifications

**Environmental considerations**

| | |
|---|---|
| Relative humidity | Up to 93% non-condensing |
| Temperature (operating) | 0° - +49°C (+32° - +120°F) |

**Properties**

| | |
|---|---|
| Board dimensions | 63 mm x 108 mm x 16 mm |

**Power requirements**

| | |
|---|---|
| Current (maximum) | 100 mA max |
| Current (standby) | 80 mA |
| Voltage | 12 VDC nominal |

**Connectors**

| | |
|---|---|
| LAN/WAN | RJ-45 modular port (Ethernet) |

**Cabling**

| | |
|---|---|
| Ethernet cable | Category 5 or better unshielded twisted pair |
| Ethernet cable length | 100 m (328 ft) max length |

**Wiring**

| | |
|---|---|
| Data bus wire gauge | 18 AWG or 22 AWG |
| Data bus wire length | Maximum distance – Wire size :<br>150 m (500 ft) - 0.65 mm (22 AWG)<br>300 m (1000 ft) - 1.02 mm (18 AWG) |

**Browser support**

- Google Chrome
- Microsoft Edge
- Safari

**Security compliance**




**COMPLIANCE STATEMENT**

**This product meets the Security Standards for Smart Devices**

# 8 Appendix

This section includes detailed instructions for module hostnames and IP addresses.

## 8.1 Module hostname

The factory default configuration of the module allows the DHCP server to assign an IP address. If you did not program the module for a specific hostname, the module registers with a default hostname on the DNS. The hostname is based on the MAC address.
Optionally use the hostname for modules configured for:

- Dynamic DHCP addresses
- Static IP addresses

The module cannot use a hostname with AutoIP.
The default hostname for the module is the letter B followed by the last six alpha-numeric digits of its MAC address (for example, B3F603F).

## 8.2 Module IP address

Find the module IP address using one of the methods described in this section.

**Notice!**
Direct IP connection
Outside access requires obtaining the public IP address and port mapping from the gateway.

### 8.2.1 DHCP lookup of IP of the address

If you connect the module to a network, a DHCP (Dynamic Host Configuration Protocol) server assigns the IP address to the module.

**Looking up the module IP address on the DHCP server**

1. Log into the DHCP server.
2. Locate the IP address table on the DHCP server.
3. Use the MAC address assigned to the module. The address is on the label on the Ethernet RJ-45 port).

### 8.2.2 Keypad lookup of IP address

If the module is connected to a compatible control panel, you can use a connected keypad to look up the local (LAN) IP address.

**Finding the module IP address using a TEXT keypad (IUI-SOL-TEXT LCD alphanumeric keypad)**

1. Enter the Installer Code, followed by [#] key.
2. Press keys [1][2][4] to find the control panel IP address for the module.

### 8.2.3 Auto IP

If you connect the module directly to a computer, you can use AutoIP to configure the module without the IP address. With AutoIP, within 60 seconds, the module temporarily assumes address 169.254.1.1 for configuration.
Do not connect the computer to a network.

**Notice!**

**If AutoIP requirements**

Make sure that the computer has AutoIP enabled. Refer to the browser help for instructions on disabling proxy service.

If you cannot connect with the AutoIP option, change the web browser configuration to not use a proxy server.

**Using the AutoIP:**

1. Remove power from the module.
2. Disconnect the Ethernet cable from the network port (wall, switcher, hub port).
3. Connect the Ethernet cable to the Ethernet port on a computer.
4. Apply power to the module.
5. Wait 60 seconds. If AutoIP service is enabled on the computer, the module accepts the IP address 169.254.XXX.XXX.
6. Open a compatible internet browser.
7. Enter the default AutoIP address for the module: **169.254.1.1**.
8. Press [Enter].
9. Enter the unique password printed on the product label and click **Login**. The **Module interface** page opens.

If AutoIP does not work on the host computer, create a new registry key to enable AutoIP. Make sure that you have permission from your IT department before changing the registry.

**Enabling AutoIP on the host computer with a new registry key:**

1. Open Notepad and create a new file. Name the file **AutoIP.reg**.
2. In Notepad, include the following text:
   *Windows Registry Editor Version 5.00*
   *[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters]*
   *"IPAutoconfigurationEnabled"=dword:00000001*
3. Save the file.
4. To add it to the registry of the host computer, navigate to the saved file and double-click it.
5. Restart the host computer.

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