

PARADOX X45

Hybrid Head Unit / Console



INSTALLATION MANUAL

FW Version: V0.47.011

X45/X46 Hybrid Security Console – Introduction

The X45/X46 is a Hybrid Wireless and Wired console, designed to operate as the central hub for security, automation, and (in future firmware releases) access control applications.

The X45/X46 all-inclusive enclosure is delivered ready for installation, requiring no additional accessories. It integrates a 65W 110/220V power adapter, dual 4Ah lithium backup batteries, Wi-Fi, Ethernet, and LTE connectivity, M-series wireless technology, an RS485 expansion bus, and full tamper protection, ensuring fast, reliable, and convenient installation.

Certification and Grades

The X45/X46 LTE version is certified to EN 50131 Grade 3 when used without wireless zone inputs or wireless sirens. When wireless inputs or sirens are used, or when the system operates in a non-LTE configuration, the system complies with EN 50136 Grade 2 requirements.

System Capacity

The X45/X46 supports:

- Up to 200 wireless devices / RS-485 devices
- Up to 40 Ethernet devices (including HD10 cameras - maximum 16, K70M keypads, and similar peripherals)

The system also supports:

- Up to 100 outputs
- Up to 40 security partitions
- Up to 64 automation scenarios
- Up to 200 combined user remote controls (maximum 4 per user) and wireless automation switches
- Up to 1,000 users
- Up to 30 cameras

Expansion and Communication

System expansion is supported via M-series wireless, RS-485 bus, or local Ethernet, with a wide range of expansion modules available for each interface.

The wireless subsystem operates using Gaussian Frequency Shift Keying (GFSK) technology and is available in both 868 MHz and 914 MHz frequency bands. It incorporates advanced frequency hopping and encryption hopping mechanisms. Communication over RS-485 and local Ethernet is protected using AES-128 encryption.

Connectivity and User Access

Remote user access is provided via the Paradox cloud-based identifier ecosystem, enabling secure two-way authentication over the internet.

The X45/X46 includes the following onboard interfaces and features:

- Wi-Fi and Ethernet connectivity
- Dual-SIM LTE communication
- M-series wireless support
- 8 onboard zone inputs / 16 doubled zones (X45)
- 16 onboard zone inputs / 32 doubled zones (X46)
- 3 PGM outputs (one 30 V / 2 A Max relay and two low-power 0.1 A outputs)
- Dedicated siren output
- 12 V DC auxiliary power outputs
- 110/220 V AC power adapter
- Dual 4 Ah lithium backup batteries (8 Ah total) / Up to 20Ah total with external battery
- RS-485 expansion bus
- One dedicated access control door output and one REX input (to be enabled via future firmware release)
- Third external battery connection

All system expansion modules support remote firmware upgrades.

Automation and Signaling

In addition to security functionality, the X45/X46 operates as a comprehensive automation controller for LED and incandescent lighting, shutters, curtains, temperature monitoring, water leak detection, and similar applications.

System inputs may be configured as signaling zone inputs, security inputs, or both. Signaling inputs are not part of the security alarm system and may be used for monitoring shutters, doors, environmental sensors (such as humidity and water flow), temperature signaling, and other non-alarm functions.

The X45/X46 provides advanced temperature control and alerting, including over-temperature and under-temperature notifications. This functionality is especially critical in cold regions, where loss of heating can result in frozen pipes and significant property damage.

Auxiliary Power and Backup Time

The X45/X46 system provides extended backup operation compared to traditional security systems. The auxiliary output provides the following backup times:

Internal battery only:

- 450 mA for 12 hours (Grade 2)
- 175 mA for 24 hours (Grade 3)

With external battery:

- 1250 mA for 12 hours (Grade 2)
- 600 mA for 24 hours (Grade 3)

It is important to note that all zone input expansion modules connected via the RS-485 bus (such as ZX10MB and ZP2MB) include their own backup batteries. These modules do not draw backup power from the X45/X46 batteries, significantly extending overall system backup time without requiring large additional batteries.

As a result, the X45/X46 auxiliary power is primarily used to support onboard zone input devices or a door striker for access during AC power loss. If a Magnetic door lock is used, additional battery may be needed to provide 24H supply. When AC power is available, the auxiliary output also supplies charging power to bus modules, with a total auxiliary capacity of up to 2.0 A.

Quick Installation- Experienced Installers

IMPORTANT: Avoid proximity to large metal objects, as this may affect wireless performance.

1. Select a location for the X45/X46 within the protected area. Ensure there is good LTE reception and Wi-Fi coverage, if used.
2. Install and secure the wall back plate. Route the required cables and mount the X45/X46 onto the back plate.
3. Connect the battery 1 and battery 2 plugs.
4. Insert the SIM card(s).
5. Connect Ethernet cable or configure Wi-Fi via hotspot.
See the [Wi-Fi Configuration via Hotspot](#) section for details.
6. Power up by connecting the power cord to a 110/220 V AC outlet.
7. Create/add the M system (using the BlueEye application)
 - a. Menu icon  > **Installer Environment** > **M System** > **Install** > enter the serial number (or scan the QR code) > **Done** > enter the site details > **Continue**.
***NOTE:** If the device is paired by scanning the QR code or entering the serial number before power-up, it appears as **Pending** in the BlueEye application. The device status in BlueEye changes to **Online** after power-up.*
8. Set up the configurations (using the BlueEye application)
 - a. (Installer) Menu icon  > **Installer Environment** > **M System** > tap site name.
(Owner) Menu icon  > **Programming**.
 - b. Pair and configure hardware devices on the **Hardware** tab.
 - c. Configure the settings on the **Firmware** tab.

Logo indications of X45/X46:

- **Amber (flashing)** – Power-up /initial sequence/Swan search.
- **White** – Connected to Swan MQTT, Connection with BlueEye possible.
- **Red** – Powered but not connected to Swan MQTT (Hotspot active for Wi-Fi setup. SSID: X45/X46 serial number).
- **Red Blinking** – Battery powered, not connected to Swan MQTT.
- **Blue Blinking** – Firmware upgrade is in progress.
- **Green Blinking** – Connected to Swan MQTT via Wi-Fi, BlueEye connection possible.
- **Steady Purple > White Flash > Amber Flashing > Steady White**– Reset to the default sequence.

Power/Reset Button:

- Powers the X45/X46 on or off when operating on battery power.
- Reboot the X45/X46 when pressed for 3 seconds and released.
- Resets the system to default settings when pressed for 10 seconds, released, and pressed again within 3 seconds.
- Press the power button twice to toggle the auxiliary outputs on or off.

Door Button

- Used to manually open or close D1 output based on the programmed access device type.
- For maglock configurations, the door unlock duration is up to 15 minutes.
- For door strike configurations, the door unlock duration is 5 seconds.
- Door unlock status is indicated by the green LED.



Fig A

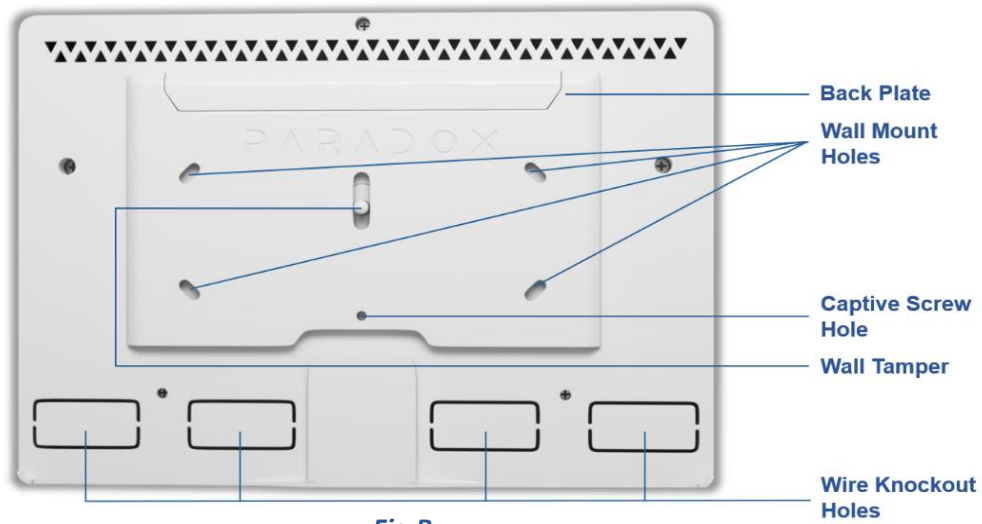


Fig B

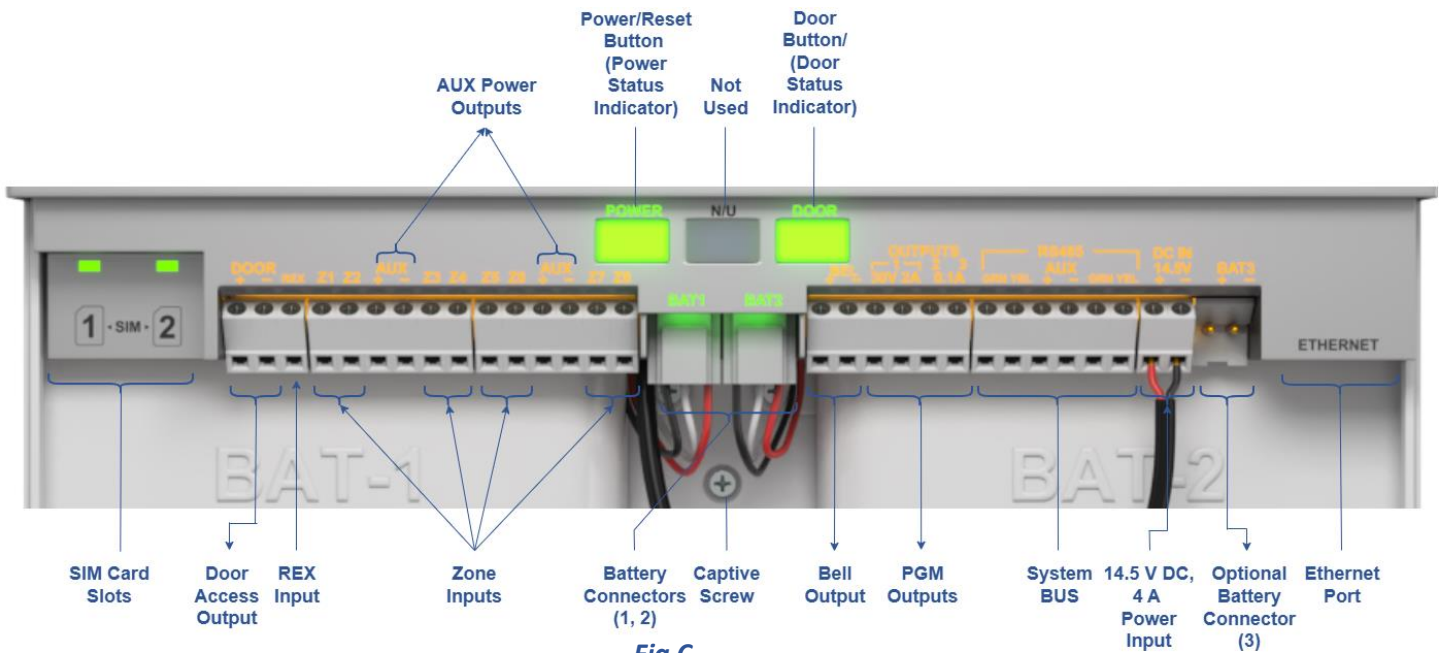


Fig C

X45/X46 Supported Devices: All Paradox product models ending with M are supported, for example, DCT2M, PMD5M. All other Paradox products are not supported.

Mounting the X45/X46

Locate the X45/X46 close to the center of all wireless devices to ensure balanced wireless reception and reliable communication. Avoid proximity to large metal objects like metal racks or electric boxes.

NOTE: *If you are using a SIM card in the console for communication, ensure that you insert it with the metallic contacts facing down. Incorrect insertion may result in the SIM card getting stuck, making it difficult to remove.*

To mount the X45/X46:

1. Select a mounting location not in proximity to large metal objects and with reasonable LTE reception available, prepare power outlet.
2. Slide down and remove the back plate from the unit. Position the back plate on the wall and secure it using screws.
3. Route the required cables through the opening at the back of the enclosure.
4. Mount the X45/X46 onto the back plate and secure the enclosure to the bracket with the captive screw located below the battery connectors 1 and 2, see [Fig B](#).
5. Provide an internet connection using an Ethernet cable, or connect later via Wi-Fi using the hotspot. See the [Wi-Fi Configuration via Hotspot](#) section for details.
6. Plug battery connectors 1 and 2.
NOTE: *Battery connector 3 is optional and is intended for use with an external battery, a maximum of 12AH, LiFePO4, or Gel Cell.*
7. Power up the console by plugging the power adapter into an outlet.

IMPORTANT: PGM outputs 2 and 3 are rated at 14 V DC whenever AC power is available. If AC power is not available, PGM outputs 2 and 3 are supplied by the backup battery, and the output voltage may drop to 11 V DC.

After the X45/X46 console is powered and connected to the internet, the Paradox logo on the console lights up in white.

Wi-Fi Configuration via Hotspot

When the X45/X46 is powered by the external power adapter, and no internet connection is detected, the hotspot is automatically enabled. The hotspot SSID is the console's serial number. The hotspot will not be available when the unit operates on battery power only.

To access the Wi-Fi configuration interface via a web browser, use the default IP address: <http://192.168.180.1>. Enter the Wi-Fi network details and click **Save**.

APN Configuration (only for LTE Models)

If your console supports LTE, use one of the following methods to configure the **APN (Access Point Name)** for the cellular connection.

- **Automatic APN Detection**
Insert the SIM card into the SIM card slot. If your APN is preconfigured in the console, it will automatically populate next to the **SIM** slot field in the BlueEye application (To verify, go to **BlueEye > Hardware > X45/X46 > SIM**).
NOTE: *If the APN does not auto-populate, follow the manual configuration steps below.*
- **Manual APN Configuration (with Ethernet)**
 - Go to **BlueEye > Hardware > X45/X46 > Select your SIM > enter your APN in the APN field > Tap Save**.
- **Manual APN Configuration (without Ethernet)**
 1. Insert the SIM card into the SIM card slot located on the console.

2. On your mobile or desktop device, connect to the X45/X46 hotspot. The network name (SSID) is typically based on the X45/X46's serial number.
3. Open a web browser and enter the following address:
<http://192.168.180.1/>
4. On the configuration page, manually enter the **APN** provided by your SIM carrier.
After configuring, it will automatically populate next to the **SIM** slot field in the BlueEye application (To verify, go to **BlueEye > Hardware > X45/X46 > SIM**).

Reset Button Functions

To reset the console to its default settings, press and hold the **Power/Reset** button for 8 seconds (the logo blinks once per second). After 8 seconds/blinks, when the logo starts flashing slowly, press the **Power** button three times within 5 seconds. Then, the logo will turn:

Steady Purple > White Flash > Amber Flashing > Steady White

This process resets the console to its default settings and brings it to a new installation mode, with the Service Company Lock (ON/OFF) remaining unchanged.

- **With Service Company Lock Active:** If the lock is active during the reset, the Service Company remains unchanged for the site and cannot be modified. Only the Service Company can access the system to restore a backup or complete the installation.
- **With Service Company Lock Not Active:** If the lock is not active during the reset, the Service Company remains unchanged, but any installer can log in and complete the installation.

Cloud Services Annual Fees for M and X Consoles:

Users have unlimited local access to the site. A cloud service subscription is required for remote access, control, programming, and receiving push notifications.

The registered Installer/service company for the site has unlimited access for programming/service without requiring any paid cloud service.

X45/X46 24/7 Supervision

The X45/X46 system is continuously monitored for online connectivity. The owner and installer will receive a push notification alert. Additionally, the Central Monitoring Station (CMS) will be notified of the system's offline status if the system remains offline for more than 20 minutes.

EN 50131-5-3 Standards Compliance

The X45/X46 console complies with the EN 50131-5-3 standards. According to the requirements specified in Table 1 of the EN 50131-5-3 standard, during the auto-learn mode, the X45/X46 console and all unlearned devices transmit at +6dBm, and not at the maximum power of +14dBm. After the device is successfully added to the system, it continues normal operation, managing power between -6dBm and +14dBm for optimal battery management. The X45/X46 console continues to be at +14dBm full power transmission after auto-learn mode ends.

Qualifying Installer Requirements

To install an M system, you must first register as an M system user in the Paradox-secured identifier ecosystem. Additionally, you must obtain a Paradox Company ID (PCI), which is a 6-character alphanumeric code.

NOTE: *The PCI is currently used only for M systems. Other Paradox systems continue to follow their existing installation process.*

For detailed information, see the following sections in the [BlueEye user manual](#):

- *Sign Up for the M System*
- *Obtaining PCI*

All systems installed using this PCI will be displayed under the company environment in the BlueEye app or the [Service Company Portal](#).

- **Invited to Install Under Another Service Company ID**

A Service Company can add you as an installer under their company ID by sending you an invitation. You can then install systems under their company ID.

NOTE: *In the BlueEye app or the [Service Company Portal](#), you must select the service company environment you want to work with (your own or invited by another company).*

- **Service Company Sites**

Each time you enter the Service Company environment, the sites displayed will be based on your user type, as captured in the table below.

Table 1

User Type	Access to Sites	Permissions	Deletion Rights
Company Owner	All sites associated with the company	• Can add or remove users • Can transfer sites to another company	• Can delete the company only if no sites are registered NOTE: <i>Existing sites must be transferred to another service company before the company can be deleted.</i>
Service Admin	All sites associated with the company	• Can add or remove users • Cannot delete the Company Owner or the company	• Can delete themselves from the Service Company
Technician	Only sites they have been granted permission to access	• Can install new systems	No deletion rights

- **Swan Service Payment**

Upon completing the installation, the Service Company invites the System/site Owner to the site. At this stage, the installer is prompted to select who will be responsible for paying for Swan services.

NOTE: *After the site payment transaction is complete, the site will be added to the Service Company's site list.*

- If the Service Company chooses to pay:
 - They will be directed to complete the payment process. After the payment is made, the Service Company Lock will turn ON.
For more information, see the *Service Company Lock* section in the [BlueEye user manual](#).
 - Renewal payments will be directed to the Service Company through BlueEye or the [Service Company Portal](#).

NOTE: *If the service company fails to renew the payment after the expiration date, within a two-week grace period, the System Owner will be asked to pay for the renewal to regain access to the site.*

- If the installer selects the System Owner as the payer:
 - Upon their first access to the site, the System Owner must complete the payment for Swan services, including all future renewals. In this case, the Service Company can turn ON the Service Company Lock if needed.

NOTE: *The System Owner must first register as an M user via the BlueEye app. For details, see the **Sign Up for the M System** section in the [BlueEye user manual](#).*

- **Service Company Lock**

After the payment is initiated and completed by the Service Company, the Service Company Lock for the site will be activated.

For details, see the **Service Company Lock** section in the [BlueEye user manual](#).

- **Portal Batch Payment**

Batch payments can be made for multiple sites based on their expiration dates through the [Service Company Portal](#). For more information, see the **Single or Batch Payments** section in the [Dealer Portal user manual](#).

Configuring X45/X46

NOTE: *Ensure that your X45/X46 console is powered on and connected to the internet. If the internet is provided only through Wi-Fi, the console hotspot opens with the SSID set as the console's serial number. Connect to the hotspot. After your phone is connected to the console hotspot, open the BlueEye application and configure the settings mentioned in the following sections.*

To configure the M system, you must:

1. Create the X45/X46 site in the BlueEye application (See the **Creating an M site** section in the [BlueEye user manual](#)).
2. Configure the settings in the **Hardware** and **Firmware** tabs in BlueEye.

For details, see the [BlueEye user manual](#).

Pairing Wireless Devices with X45/X46

NOTE: *Ensure that all wireless devices that you want to pair with the console are within the range of the console. For details, see the installation manuals of the respective devices.*

To pair a device with the X45/X46 console:

1. In BlueEye, when in the **Hardware** tab, tap **Add Devices > Wireless Devices Auto learn**.
A rotating radar icon is displayed with a 6-minute countdown. All unpaired devices pair within 6 minutes and appear at the top of the device list with a new tag and voice announcements.

For details, see the installation manuals for each device. A link to the installation manual can be found at the bottom of the device screen in the BlueEye application.

Configuring Devices

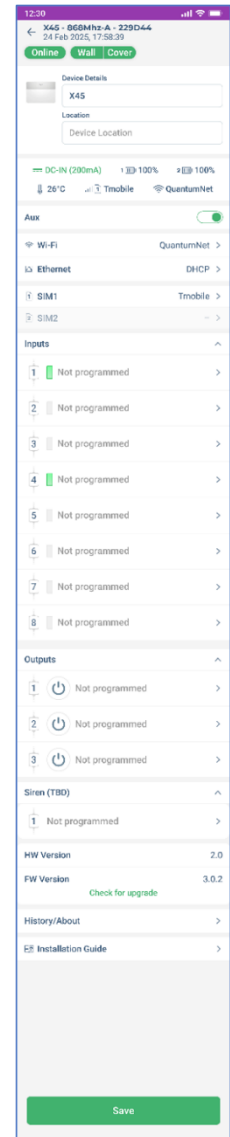
To configure a device:

1. When in the **Hardware** tab, tap the device that you want to configure.
2. Enter the necessary details and tap **Save**.

For details about each parameter displayed on the page, see the following table.

Table 2

Parameter	Description
Device Details	Enter the device name.
Aux	Enables or disables the auxiliary power output.
Wi-Fi	Configures the console's Wi-Fi connection. Tap Wi-Fi > Wi-Fi Network > select a network from the list. If the network name is not listed, you can configure it manually by accessing the default IP address: http://192.168.180.1 .
Ethernet	Displays the Ethernet connection details.
SIM1/SIM2	Available only on LTE models. Use this option to configure the APN settings. For details, see the APN Configuration section in this manual.
Inputs	Configure zones.
Outputs	Configure 3 programmable outputs (PGMs).
Siren	Configure siren.
History / About	Displays details and general information about the console.



RS-485 Expansion Bus

The X45/X46 uses an RS-485 expansion bus for connecting compatible M bus modules. Follow the installation guidelines below to ensure reliable communication.

Table 3

Item	Installation Guidance
Recommended cable	Use a twisted pair for the GRN and YEL data lines. Use a separate pair for AUX+ and AUX-. Shielded cable is recommended in electrically noisy environments or between buildings. A wire gauge of 20-22 AWG is recommended.
Topology	Daisy-chain wiring is recommended. If a star topology is required, use RS-485 isolators or repeaters to improve communication reliability.
Termination	Install a 120 Ω termination resistor at each physical end of the RS-485 segment (maximum two termination resistors). Termination is required when either of the following conditions applies: • The cable length is 1,000 ft (305 m) or longer • 20 or more Bus devices connected. Note: Do not install termination at every module.

Polarity	Maintain correct GRN/YEL polarity throughout the installation. If communication issues occur, verify polarity, power, and module enrollment.
Power loading	Ensure that the total current consumption of connected modules does not exceed the available AUX power capacity.
Isolation	For any setup or branch longer than 3,000 ft (914 m), the RS485-14 4-output hub isolator is recommended to extend and isolate the RS-485 bus.

- Power down the controller before connecting or removing RS-485 modules.
- Connect only approved M bus modules.
- The system supports up to 64 RS-485 devices and up to 200 total wireless and RS-485 modules.
- After installation, enroll each module in BlueEye and verify communication status, firmware version, tamper status, and battery status (if applicable).

Bell and Programmable Outputs

- The BELL output is supervised and is intended for use with approved external siren or bell devices.
- When the BELL output is not used, or when the connected siren does not include a resistor, connect a 1 k Ω resistor across the BELL output terminals to prevent a Bell Absent trouble indication.
- Siren Assignment: Wireless sirens can be assigned to specific areas. When assigned to an area, the siren sounds for alarms generated within that assigned area.
The onboard BELL output operates as a global siren output and cannot be assigned to a specific area. The BELL output sounds when an alarm is generated in any area of the system.
- PGM1 is a relay output rated at 30 V / 2 A maximum.
- PGM2 and PGM3 are low-current outputs rated at 100 mA maximum each. Use external relay modules when controlling higher-current devices.
- Onboard programmable outputs (PGMs) can be activated manually or through scenarios, schedules, system events, sunrise/sunset conditions, input following, or temperature-based conditions.
- Verify the operation of each output with the connected load before completing the installation.

Zone Input Wiring

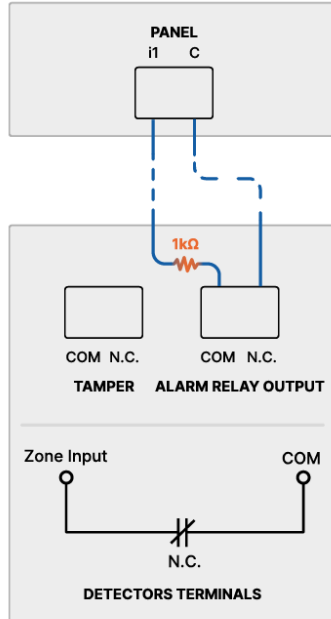
- By default, inputs can be used as signaling inputs for automation and monitoring. Assign a zone number to use an input as a security zone.
- The X45 supports 8 onboard zone inputs and ATZ (Automatic Zone Doubling) for up to 16 zones. The X46 supports 16 onboard zone inputs and ATZ for up to 32 zones.
- Use only the approved EOL and ATZ resistor values and wiring methods specified for the installed firmware version and certification requirements.
- Configure zone operation, reporting, notifications, and automation rules in the BlueEye application as required.

Zone Wiring Configurations

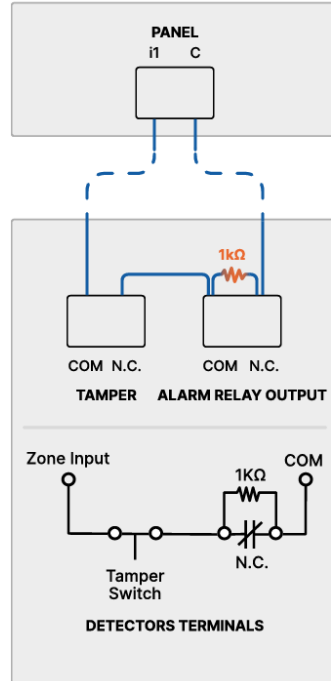
The following diagrams show the supported single-zone and ATZ wiring configurations, including EOL and tamper wiring.

Single Zone Connections

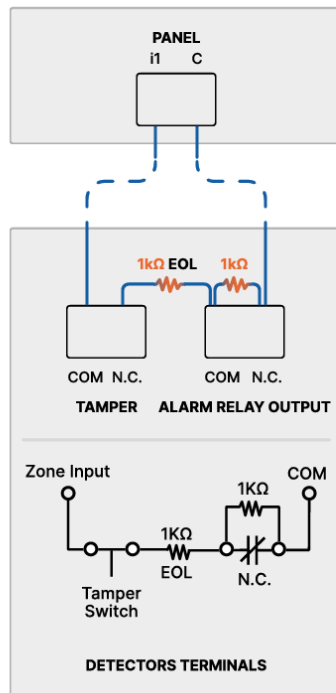
1 X 1K Ω EOL RESISTOR



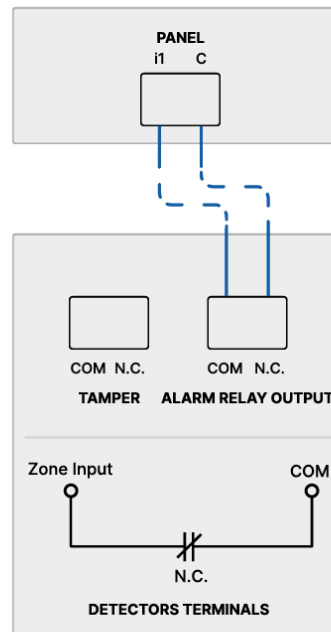
1 RESISTOR 1K Ω + 1K Ω PARALLEL TO THE ZONE CONTACT



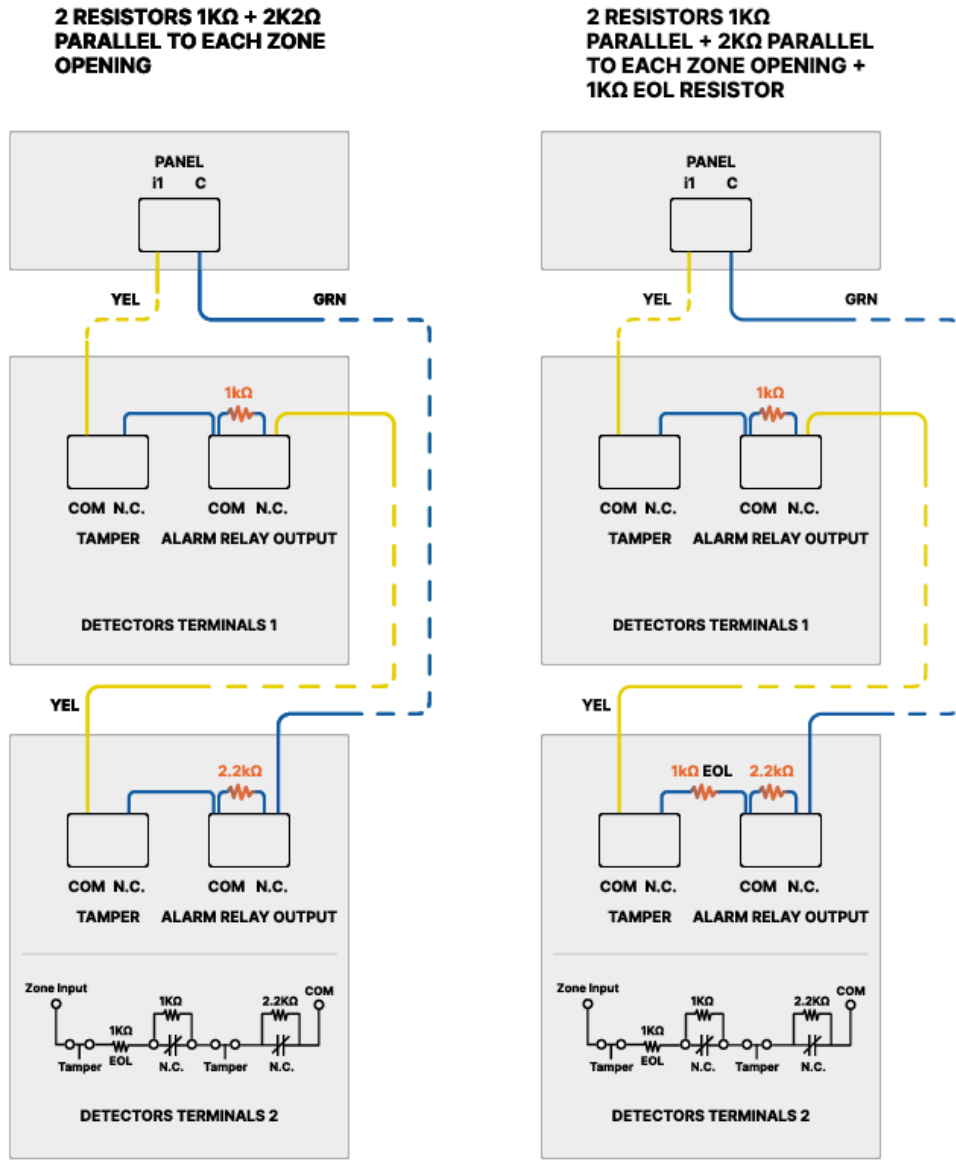
2 RESISTORS 1K Ω PARALLEL + 1K Ω EOL



NO RESISTORS



ATZ Zone Connections

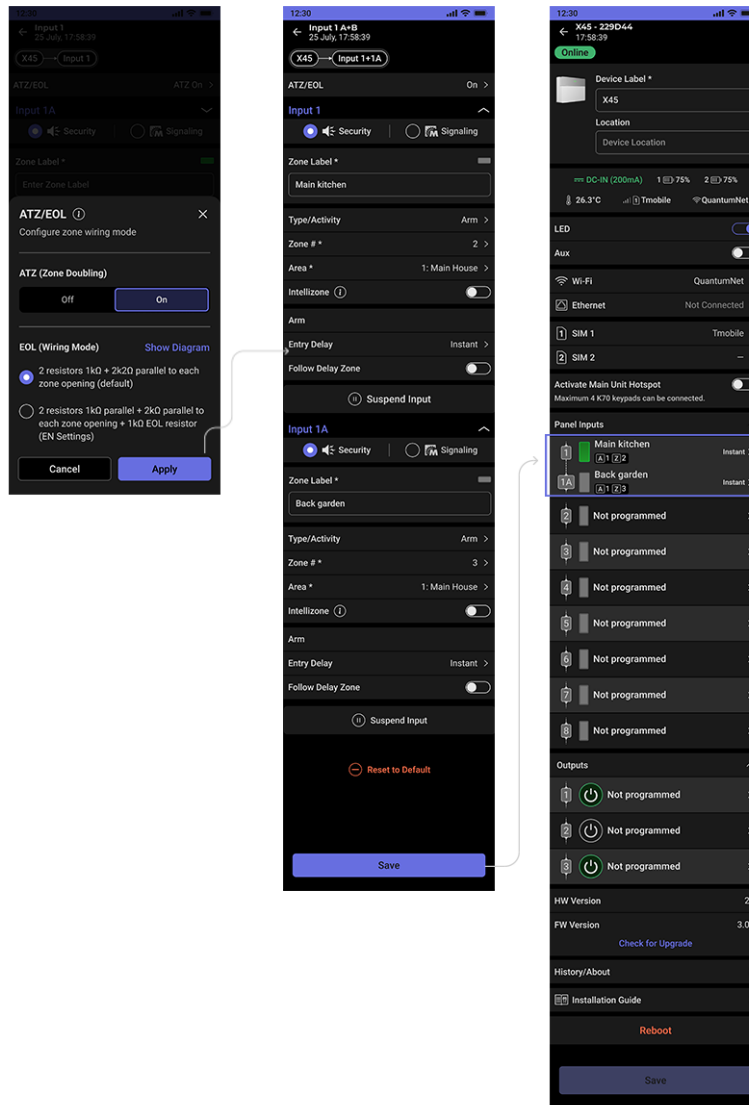


Enabling ATZ in BlueEye

ATZ allows two zones to be connected to a single onboard zone input, increasing the number of available onboard zones from 8 to 16 on the X45 and from 16 to 32 on the X46.

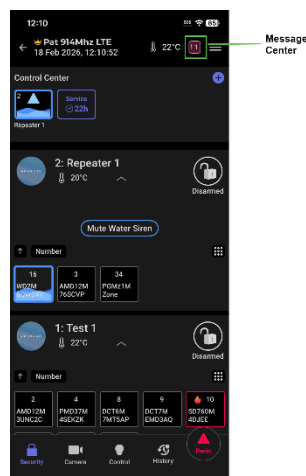
To enable ATZ:

1. In the BlueEye application, go to **Hardware** and select the X45/X46 console.
2. Select an onboard **Input**.
3. Open **ATZ/EOL**.
4. Set **ATZ (Zone Doubling)** to **On**.
5. Select the required **EOL Wiring Mode** and tap **Apply**.
6. Configure the two zones associated with the doubled input and tap **Save**.



Dual Tamper Protection

The X45/X46 console is equipped with dual tamper protection (wall and cover). If the system is armed, any tamper activation immediately triggers a system alarm. When the system is disarmed, a tamper activation generates a report to the CMS, sends a push notification, and displays a tamper trouble alert in the BlueEye application.



Upgrading Firmware

To upgrade the firmware version of the console:

1. In the BlueEye application > **Hardware** > tap the console.
2. On the **Device Details** page, scroll down and tap **Check for Upgrade**.
3. If an upgrade is available, tap **Upgrade** when prompted.

Keep track of the progress in the BlueEye application to ensure that the upgrade is completed successfully. The process may take a few minutes, depending on the network quality.

NOTE: *If the devices are connected through repeaters, the firmware upgrade is transmitted via the repeater, ensuring that devices located farther from the main console still receive the update.*

Generating Logs

To generate logs for a console or device:

1. When in the X45/X46 site, go to **Firmware** > **Service Logs**.
2. Select the console or device for which you want to generate a log.
3. Tap **Generate logs**.

The logs are generated as a ZIP file.

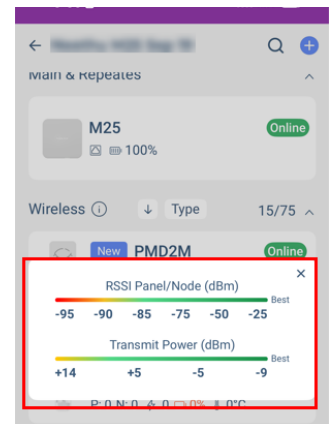
Signal Strength and Transmit Power Monitoring

The BlueEye application provides insights into each device's received signal strength and transmission power to optimize performance.

To view the RSSI and transmit power range:

1. When in the X45/X46 site, tap the  icon next to the **Wireless** tab.
A pop-up window with the RSSI and transmit power range is displayed.
2. Maximum power transmitted by X45/X46:
 - 868 MHz: +14 dBm
 - 914 MHz: +22 dBm

Tap on any listed device to view signal strength and additional device metrics. The following parameters are displayed for each device:



P: -46 N: -18 ⚡ -9 🌡 24°C 🔋 100%

- **P** - Received signal strength at the console.
- **N** - Received signal strength at the device.
-  - Transmit power of the device.
-  - Current temperature reading of the device.
-  - Battery level of the device.

A higher P and N value indicates stronger and clearer communication between the console and the device.

- If **P** is low, the console struggles to receive signals from the device.
- If **N** is low, the device struggles to receive signals from the console.

NOTE: *Values below -93 with maximum Tx power are not recommended values, and RPT5M can be used to extend the range.*

Power transmission impacts only **P**:

- When power transmission increases, the **P** value at the console generally improves, as a stronger signal is sent.
- If the **P** value is good, the device can reduce its transmission power to save battery life.

Technical Specifications

The following table lists the technical specifications of the X45/X46 console.

NOTE: *The specifications are subject to change without prior notice.*

Table 4

Component	Specifications
Power Supply	110–220 V AC input, 65W
Auxiliary Output	12 V – 14.5 V DC, 1.5A, current-limit protection
Wireless Type	GFSK with frequency and encryption hopping
RF Power	868 MHz band (+14 dBm), 914 MHz band (+22 dBm); coin battery devices limited to +14 dBm.
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz; certain countries may have limited or different frequencies.
Bus Expansion	RS485 for input and output modules
Batteries	2 x 12V lithium batteries, 4 Ah each
Battery Backup	Internal battery: 450 mA / 12 h (Grade 2); 175 mA / 24 h (Grade 3) With external battery: 1250 mA / 12 h (Grade 2); 600 mA / 24 h (Grade 3)
Humidity Range	93% maximum (ULC)
Ethernet/Wi-Fi	Built-in Ethernet, Wi-Fi – 2.4 GHz B/G/N
LTE	Worldwide support, LTE options for different countries
Users	1000 (Owner, Masters, Regular, guests, and maintenance)
Users Access	Unlimited local access, remote cloud access via application or PC, with push notifications available by subscription.
JPEGs for User and Partition	Via cloud storage
Partitions	40
Wireless Modules/ RS-485 Modules	Up to 200
On board PGM	3 (1 x Relay 30 V/2 A Max; 2 x 10 to 14 V DC/100 mA)
Siren	One 25 W on-board global BELL output; additional M wireless sirens compatible with area assignment.
Total Zones	X45 - 200 (8 on board) X46 - 200 (16 on board)
Adding Devices	Via auto-learn feature (wireless, RS485, and Ethernet) or QR code scan
Remotes	Maximum 200 remotes or wireless automation switches; up to four per user.
Wireless Repeaters	Up to 5 Ethernet-to-wireless repeaters
Programmable Outputs	Up to 100 outputs per system
PGM Activation	By system events, automation scenarios, schedules, application, or manually via wireless switches
PGM Status Verification	PGM status can be verified by any system input
Ethernet Expansion Devices	Up to 40 devices, keypads, cameras, and access control modules
Video Verification	Up to 30 cameras
Access Control	Up to 64 doors (available soon)
Arming Options	Stay, Sleep, and Full Arm
Auto Arm	On schedule or no movement
Auto Disarm	On schedule for Sleep-to-Stay and Stay-to-Disarm

Component	Specifications
Security Events (when armed and 24H)	1000
System Disarmed Events	1000
Automation Events	1000
Access Events	50,000
Installation	By registered installer with Paradox Company ID (PCI) from BlueEye or PC (coming soon).
Service Company Access	Local and remote access, always or by owner permission, no subscription required.
Service Company Lock	Available; enabled automatically when the Service Company subscribes to the Swan service.
Service Company Portal	Available for all registered Service Companies/Installers with Paradox Company ID (PCI).
Temperature Display and Control	Site and area temperature display via system devices; temperature output control (cool or heat); custom temperature alerts
Cloud Services	For push and remote user access; subscription required
Reporting	Up to four IPC10/VIPC20 receivers only; two channels with backup. Up to three transmission channels: Ethernet, Wi-Fi, and LTE. Video verification reporting using HD10 cameras is supported in combination with IPC10/VIPC20
Programming	Via BlueEye application
Operating Temperature	-25°C to +45°C (-13°F to 113°F) Battery charging: 0°C to 40°C (32°F to 104°F)
Dimensions	26.8W x 19.5H x 3.6D cm (10.55" W x 7.68" H x 1.42" D)
Weight	1.9 Kg
Certifications	CE, EN 50131-3, EN 50131-6, EN 50136-1, EN 50136-2, EN 50131-5-3, FCC 15.247, Grade 3, Class II. X45/X46 – SP4, X45/X46 LTE – DP3 Type of PS – Type A Certification Body: Applica Test & Certification

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC ID: KDYX45/X46

IC: 2438A-X45/X46

- This Class B digital apparatus complies with Canadian ICES-003.
- -Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC Statements

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

AVERTISSEMENT – CONFORMITÉ AUX NORMES D'EXPOSITION AUX RF: Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Warranty

For complete warranty information on this product, see the [Limited Warranty Statement](#) document, or contact your local Paradox distributor.

Patents

US, Canadian, and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd.

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