

# U-PROX Wireport User Manual

## Wired Port (Input) Module for the U-PROX Security System

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## 1. Introduction

The U-PROX Wireport is a wireless module with three inputs, designed to connect wired equipment (such as detectors and IR barriers) to the U-PROX wireless control panel. It features a controlled 3V power output and can be integrated into detectors for enhanced system functionality. The module is managed through the U-PROX Installer mobile application.

For technical support, please contact:

Phone: +38(091)481-01-69

Email: [support@u-prox.systems](mailto:support@u-prox.systems)

## 2. Safety Warnings

## Battery Safety:

This device is powered by three pre-installed CR123A lithium batteries (1500 mAh each) with a service life of up to 5 years (assuming two wired detectors drawing 24  $\mu$ A in standby). Replacing batteries with non-approved types may lead to fire or explosion. Always dispose of used batteries following local regulations.

## Installation Precautions:

Install the Wireport only when the power supply is disconnected. Adhere to all electrical safety and fire protection guidelines during installation and maintenance.

## Handling:

Do not disassemble or modify the device. Ensure that all connections are secure and follow the provided instructions closely.

## 3. Applications for Customization

The U-PROX Wireport integrates seamlessly into the U-PROX security system and can be configured via:

- **U-PROX Installer Mobile Application:** Quickly set up and adjust settings for wired inputs and power outputs from your mobile device.
- **Installer Web Portal:** For comprehensive configuration and remote monitoring of the system.

## 4. Description and Principle of Operation

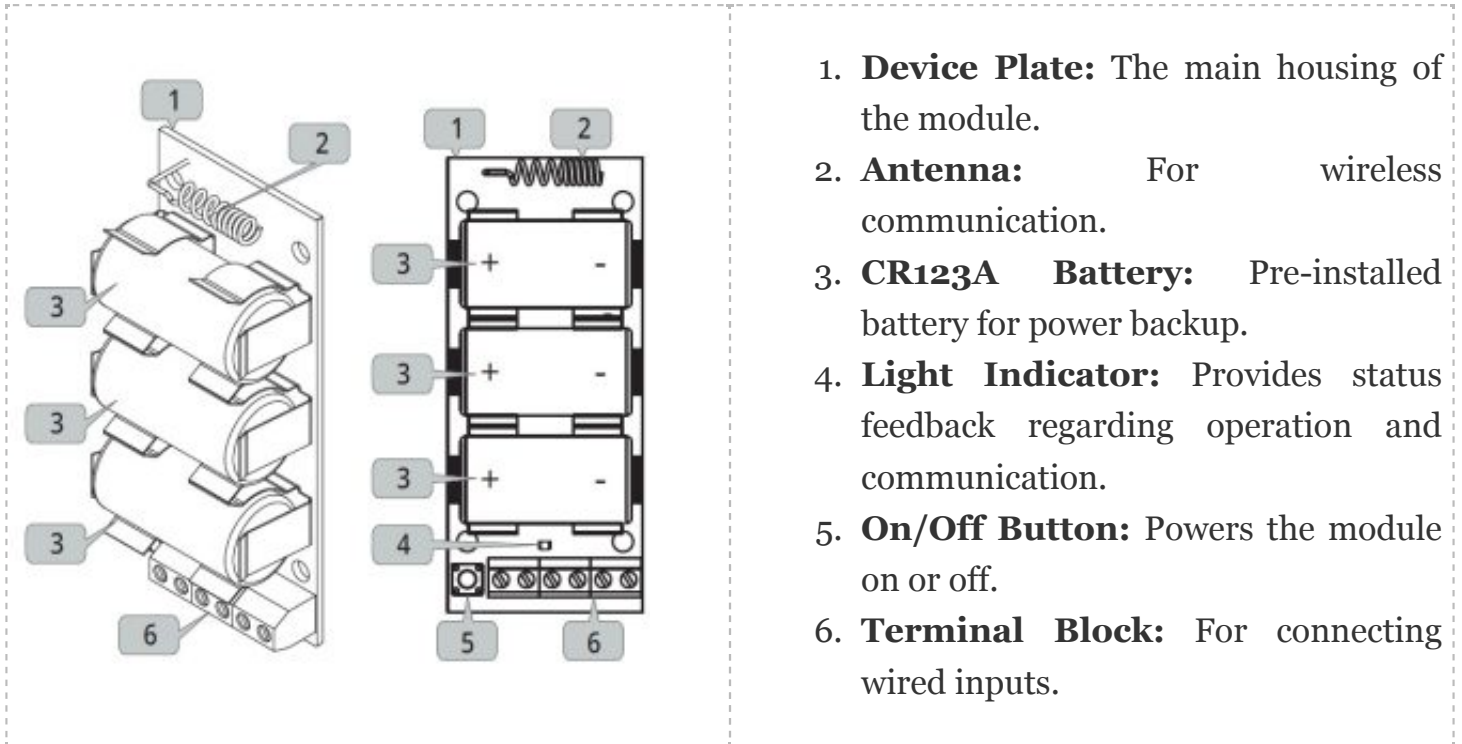
The U-PROX Wireport acts as a bridge between wired detectors and the U-PROX wireless control panel. It converts signals from wired equipment to wireless data transmitted via a secure ISM-band interface. In addition, it supplies a regulated 3V power output to connected devices and includes a backup power system via its CR123A batteries. The device supports secure, two-way communication with sabotage detection, ensuring reliable operation even during power outages.

The radio range extender automatically detects which devices require relaying. Intelligent algorithms coordinate the most optimal data transmission route between extenders and the security center. The device also supports relaying images from motion detectors with a built-in U-PROX PIR Cam.

It has a built-in 2500 mAh battery and can operate for up to 36 hours in the absence of

main power. It is installed indoors and works exclusively with the U-PROX security system.

## 5. Functional Elements of the Device



**The battery cannot be charged at temperatures below 10°C; ensure the power adapter is connected.**

## 6. Technical Specifications

### Power Supply & Backup:

- Operates on 3V via three CR123A lithium batteries (1500 mAh each), with backup power lasting up to 5 years under low-power conditions (for two wired detectors drawing 24 µA each in standby).

### Wireless Communication:

- Interface: ISM-band wireless interface with multiple channels.
- **Frequency (Region 1):** 868.0 to 868.6 MHz; (Region 3): 916.5 to 917 MHz.
- Bandwidth: 100 kHz; Max Power: 20 mW; Range: Up to 4800 m (line-of-sight).
- Security: Encrypted two-way communication with a 256-bit key and sabotage detection.

**Operating Temperature:** -10°C to +55°C

**Dimensions & Weight:**

- 89.7 x 38.8 x 20.5 mm; Weight: 0.34 kg

**Power Output:** Controlled 3V output, rated for a maximum of 50 mA.

**Inputs:** Three inputs labeled ALM1, ALM2 (for alarm signals) and TMP (for the tamper switch).

**Environmental & Safety Ratings:**

- Permissible Humidity: Up to 75%
- Environmental Class: II (according to EN 50131-1)
- Security Grade: 2
- Case Color: White

## 7. Installation Instructions

### 7.1 Preparing the Installation Site

**Location:** Install the Wireport indoors in a location with stable environmental conditions.

**Considerations:** Ensure that the module's location allows for easy routing of sensor cables and that there is minimal interference with wireless communication.

### 7.2 Mounting the Wireport

**Surface Preparation:** Verify that the installation surface is clean, flat, and suitable for mounting.

**Mounting:** Attach the device plate securely to the wall or cabinet using the appropriate mounting hardware (refer to the mounting kit and quick start guide). Secure the device with the locking screw.

**Secure Connections:** Ensure that the antenna is properly oriented and that the terminal block is accessible for wiring.

### 7.3 Wiring and Connection

**Connecting Wired Equipment:** Route the cables from the wired detectors through the terminal block. Ensure that the connections to ALM1, ALM2, and TMP are made according to your system design.

**Power Supply Connection:** Although the module operates on battery power, ensure that any external power supply (if applicable) meets the 3V, 50 mA specification.

## 8. Operation and Settings

### 8.1 Device Registration and Pairing

Launch the U-PROX Installer mobile app or web portal and log in with your installer credentials.

- **Register the Device:** Follow the step-by-step instructions to add the Wireport to your U-PROX security system. Hold the module within the recommended range (approximately 1 meter) of the control panel during registration.
- **Confirmation:** The light indicator will confirm successful registration.

### 8.2 Testing and Configuration

**Communication Test:** Use the U-PROX Installer app to run a communication test. The light indicator will display signal quality.

- **Output Control:** Test the controlled 3V output to ensure connected devices function correctly.

**Configuration:** Adjust settings for the wired inputs and power output via the U-PROX Installer application.

## 9. Maintenance and Service

### Cleaning:

Regularly clean the device plate, antenna, and terminal block with a soft, dry cloth to prevent dust accumulation.

### Battery Replacement:

Replace the CR123A batteries only with approved models. Follow proper safety guidelines and dispose of used batteries according to local regulations.

### Troubleshooting:

If the module fails to communicate or power connected devices, recheck all wiring, verify battery condition, and consult the diagnostic features in the U-PROX Installer app.

## 10. Compliance and Warranty

### Standards Compliance:

The U-PROX Wireport complies with the Radio Equipment Directive 2014/53/EU and Directive 2011/65/EU (RoHS). The original Declaration of Conformity is available on the U-PROX website in the Certificates section.

### Warranty:

Warranty for U-PROX devices (excluding batteries) is valid for two years from the purchase date. For any issues, please contact

[support@u-prox.systems](mailto:support@u-prox.systems); remote troubleshooting may be available.

## 11. Scope of Delivery

The complete package includes:

- U-PROX Wireport Module
- Three CR123A Batteries (Pre-installed)
- Quick Start Guide

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