2-Channel Web Relay Pro Quick Guide

Model:
LP-WR2CH-XPRO

Type:
Web Relay

Quick Guide Overview

- Default IP address
- First-Time Setup
- Default username and password
- Accessing the device with Access Point mode
- Changing network settings (DHCP/Static IP)
- Basic relay control
- HTTP URL relay triggering
- Firmware upgrade
- New features in LP-WR2CH-XPRO firmware

Default IP Address

This device uses a DHCP-assigned IP address for normal operation. This means the device does not use a fixed default IP on your main network.

After it connects by Ethernet or Wi-Fi, your router assigns the normal operating IP address.

- For first-time setup, connect to the device's Wi-Fi access point and open:

  http://192.168.7.1/

- At this address, the device shows a lightweight setup page that helps you find the network address assigned for normal operation.

First-Time Setup

Step 1 Power on the device and wait for it to finish booting.

Step 2 On your phone or laptop, connect to the LanPoE setup Wi-Fi AP.

- The AP name is normally `relay-##-##`.
- The default AP password is `password`.

Step 3 Open a browser and go to:

- http://192.168.7.1/

Step 4 If Ethernet is connected, the setup page will show the device's Ethernet status and DHCP IP address.

Step 5 If the Ethernet link shows Connected and an Ethernet IP is listed, reconnect your phone or laptop to the same main network as the device.

Step 6 Open a browser and go to the displayed Ethernet IP address:

- http://192.168.1.202/

Step 7 If Ethernet is not available, use the Wi-Fi setup section on:

- Enter the main Wi-Fi network name.
- Enter the Wi-Fi password.
- Save the Wi-Fi settings.
- Reconnect your phone or laptop to that same Wi-Fi network.
- Find the device's DHCP IP from your router or network scanner, then open it in a browser.

Notes

- 192.168.7.1 is only for the temporary setup AP, not the normal operating address.
- The normal device address is the DHCP IP assigned by your network.
- If Ethernet is connected, the DHCP IP is shown on the setup page.
- If Ethernet is not connected, use the setup AP page to configure Wi-Fi first.
- The setup AP remains available during onboarding and stays enabled until **Remote Control** is enabled.

Default Username & Password

In order to login to LanPoE network relay's interface, please enter the default username & password.

- Username: admin
- Password: admin

- For security, change default credentials after first login.

Accessing the LanPoE Web Relay Pro with the Access Point Feature

Use this method when your PC/phone is not on the same subnet as the relay.

Step 1 Open Wi-Fi settings on your device.

Step 2 Find and connect to SSID: `relay (serial number)`.

Step 3 Enter password: `password`.

Step 4 Open browser and navigate to: `http://192.168.7.1/dashboard.html`

After login, configure station network settings as needed.

Changing Network Settings (DHCP/Static IP)

Use this method when your PC/phone is not on the same subnet as the relay.

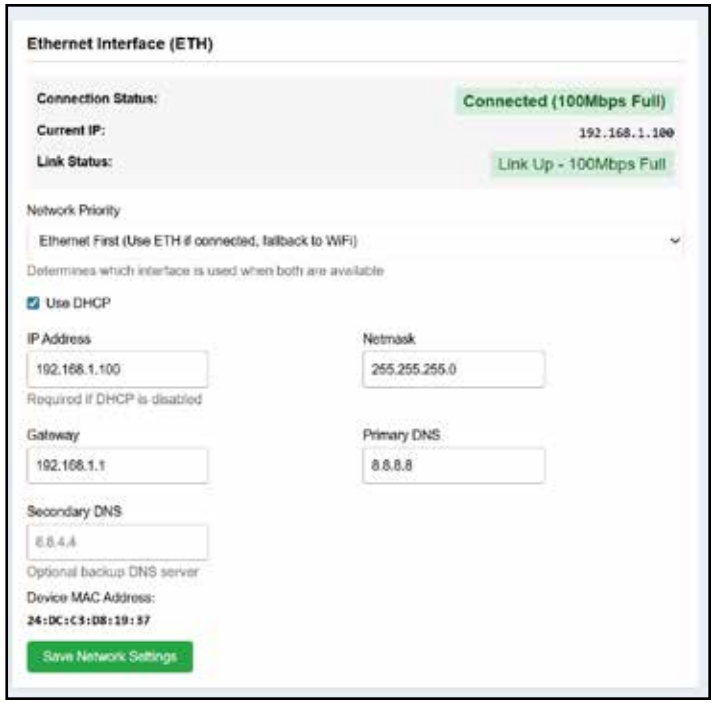
Step 1 Login to the web UI.

Step 2 Open Settings

Step 3 In the network section, configure:

- DHCP or Static IP
- Ethernet / Wi-Fi behavior
- Network Priority (Ethernet-first or Wi-Fi-first)

Step 4 Click `Save Network Settings`.



If both Ethernet and Wi-Fi are enabled, the selected priority determines which interface is used first.

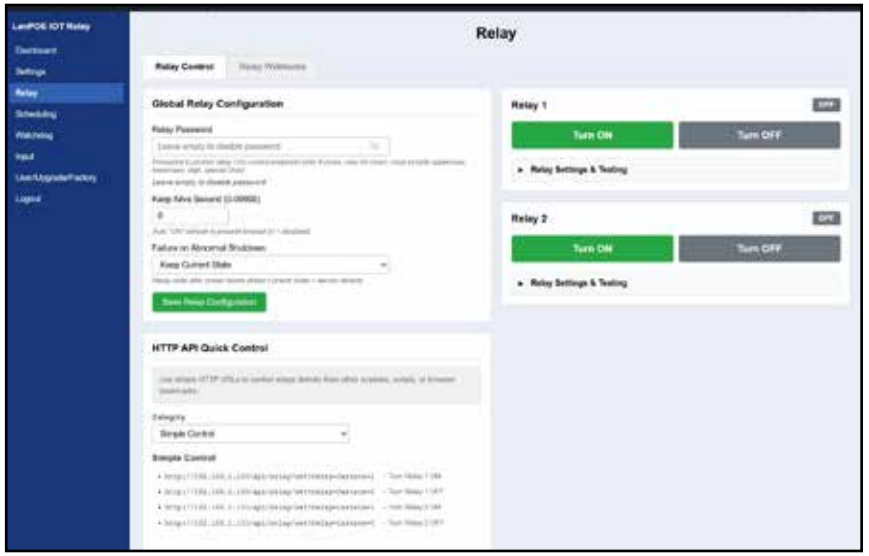
Basic Relay Control

Step 1 Open `Relay`.

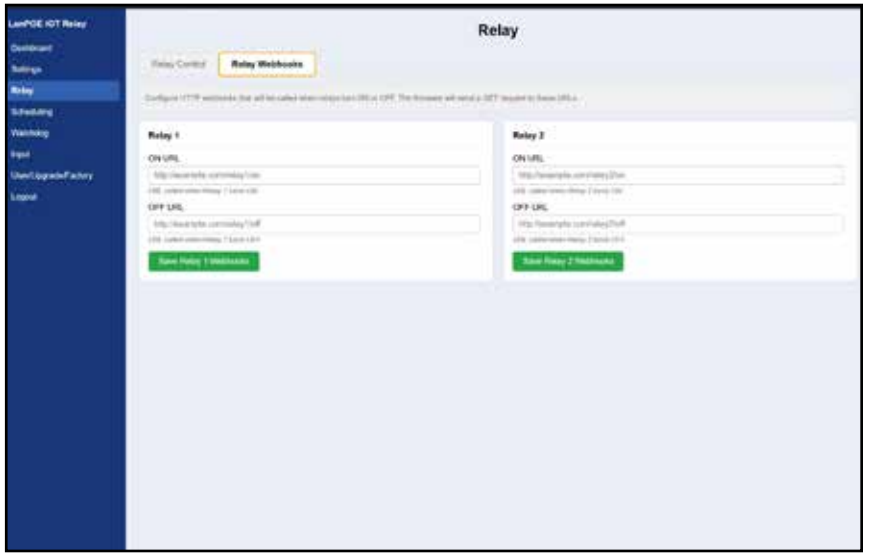
Step 2 Use the relay controls to set each output:

- ON/OFF
- Delay mode
- Momentary behavior (timed pulse)

Step 3 Confirm status from `Dashboard`.



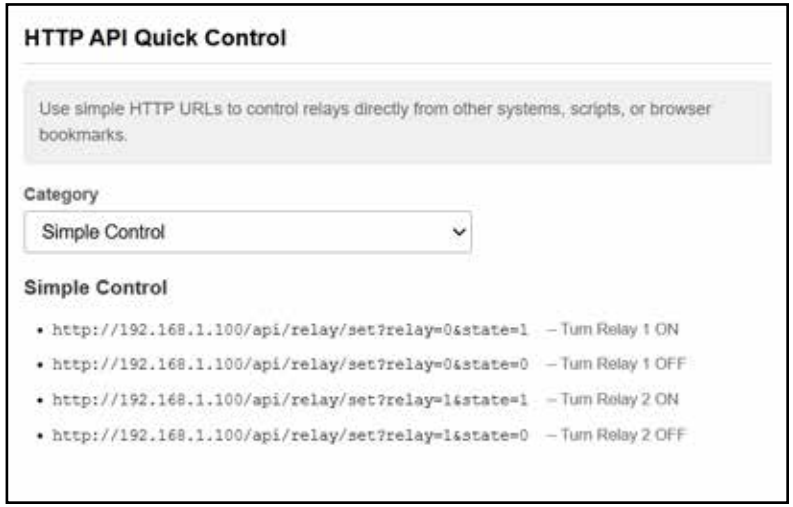
You can also configure relay webhooks under `Relay` -> `Relay Webhooks` for external integrations.



HTTP URL Relay Triggering

New firmware uses REST-style relay URLs for simple HTTP control.

- Example: **http://<device-ip>/api/relay/set?relay=0&state=1**



Parameter meaning:

- Relay: relay index (0 = Relay 1, 1 = Relay 2)
- State: 0 = OFF, 1 = ON
- Password (optional): relay/API protection password when enabled

Additional action examples:

- Momentary pulse: **http://<device-ip>/api/relay/set?relay=0&action=momentary&duration_s=10**
- Delay ON: **http://<device-ip>/api/relay/set?relay=0&action=delay_on&delay=30**
- Delay OFF: **http://<device-ip>/api/relay/set?relay=0&action=delay_off&delay=30**

Firmware Upgrade

Step 1 • Navigate to: https://firmware.powerofpoe.com/

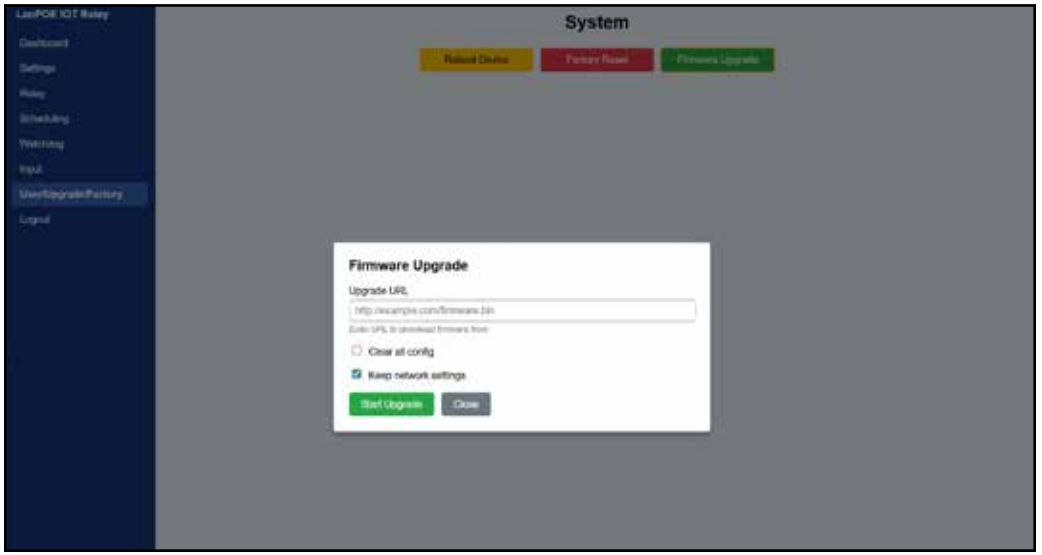
Step 2 • Copy Firmware URL

Step 3 • Open `User/Upgrade/Factory`.

Step 4 • Click `Firmware Upgrade`.

Step 5 • Paste Firmware URL in `Upgrade URL`.

Step 6 • Start upgrade and wait until completion.



Recommended:

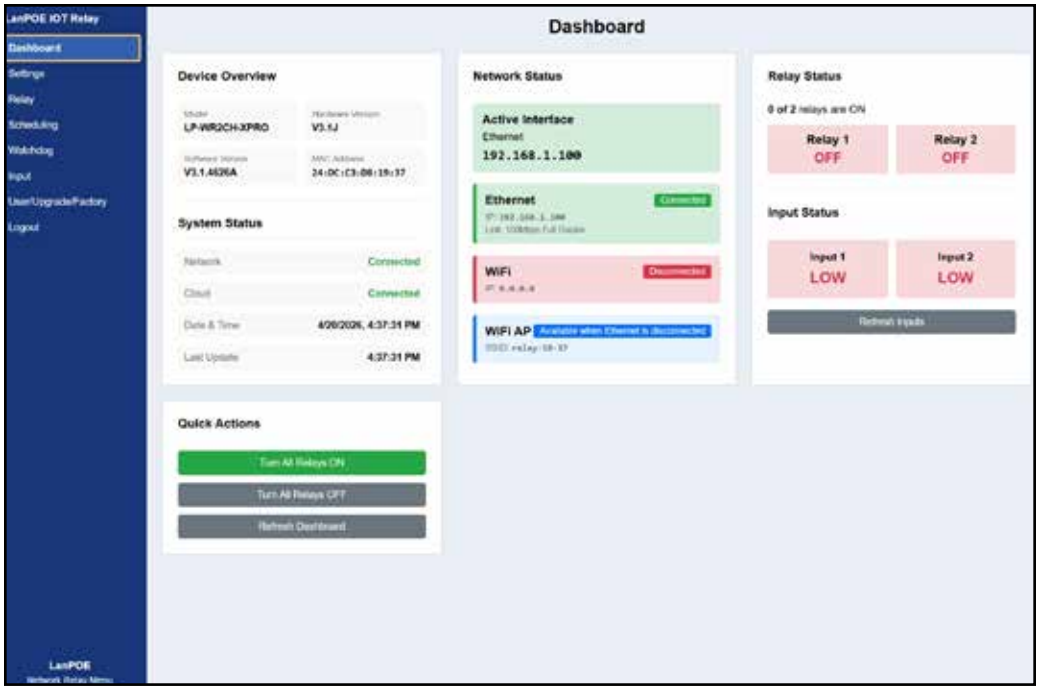
- Use HTTPS-hosted firmware URLs in production.
- Verify URL accessibility before starting upgrade.
- Use the firmware artifact: `web_relay_firmware.bin`

New Features in LP-WR2CH-XPRO Firmware

Expanded Navigation and Management UI

Main navigation now includes:

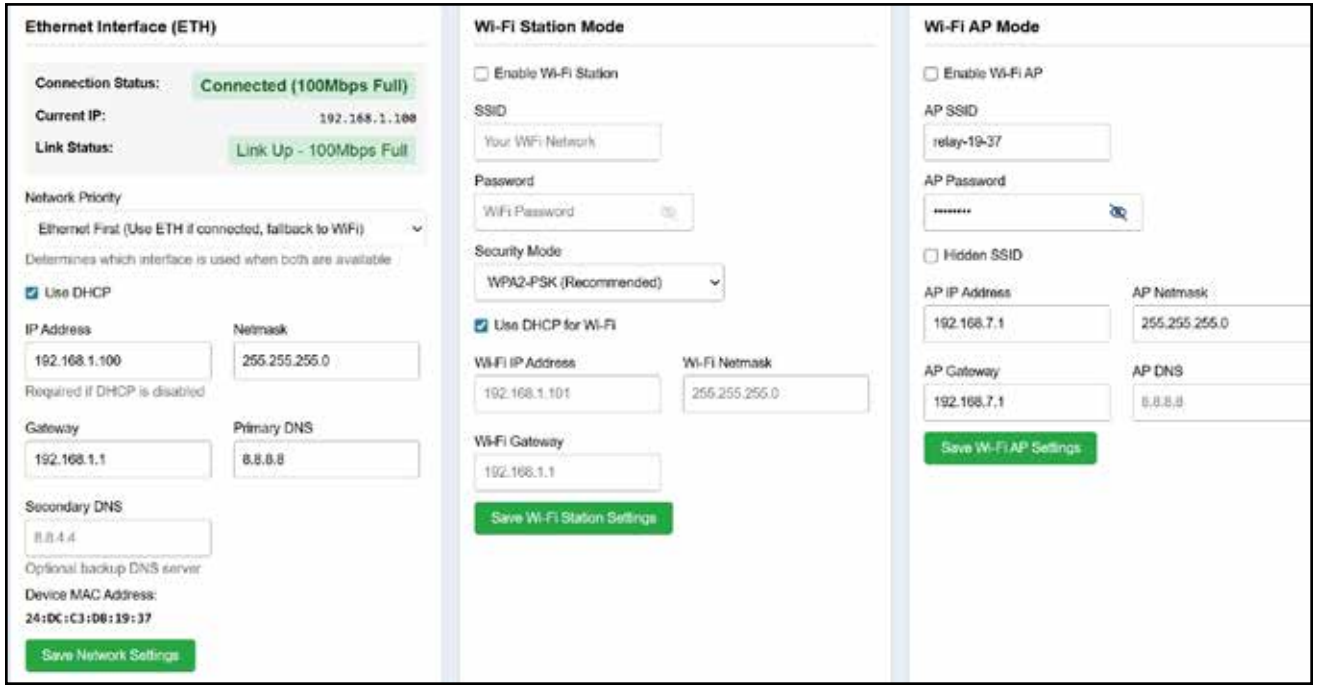
- `Dashboard`
- `Settings`
- `Relay`
- `Scheduling`
- `Watchdog`
- `Input`
- `User/Upgrade/Factory`



New Features in LP-WR2CH-XPRO Firmware

Network Priority and Failover

- Configurable network priority (Ethernet-first or Wi-Fi-first).
- Automatic fallback between Ethernet and Wi-Fi.

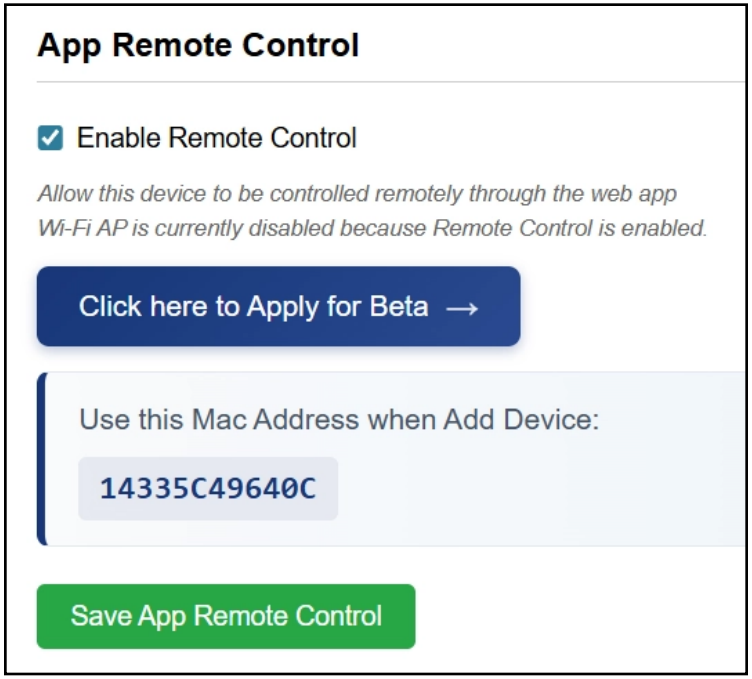


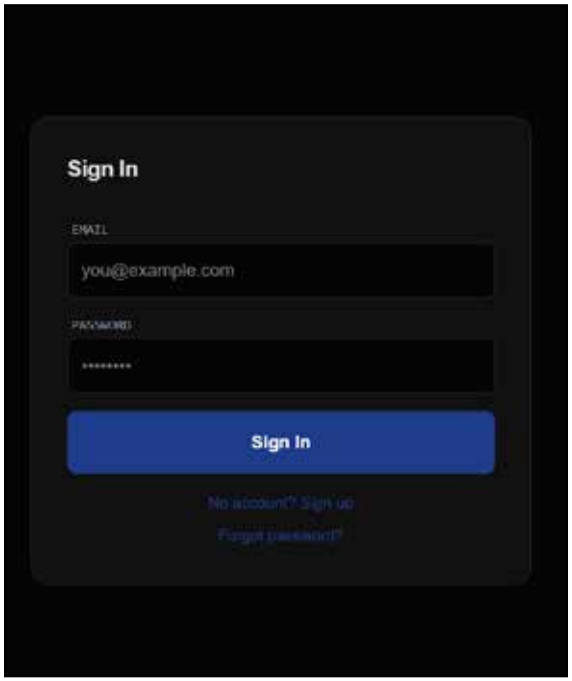
New Features in LP-WR2CH-XPRO Firmware

Built-in App Remote Control

- `Enable Remote Control` option in `Settings`.
- Device pairing flow based on MAC address.

NOTE: Device will automatically disable WIFI AP Mode when Device is Remote Control





New Features in LP-WR2CH-XPRO Firmware

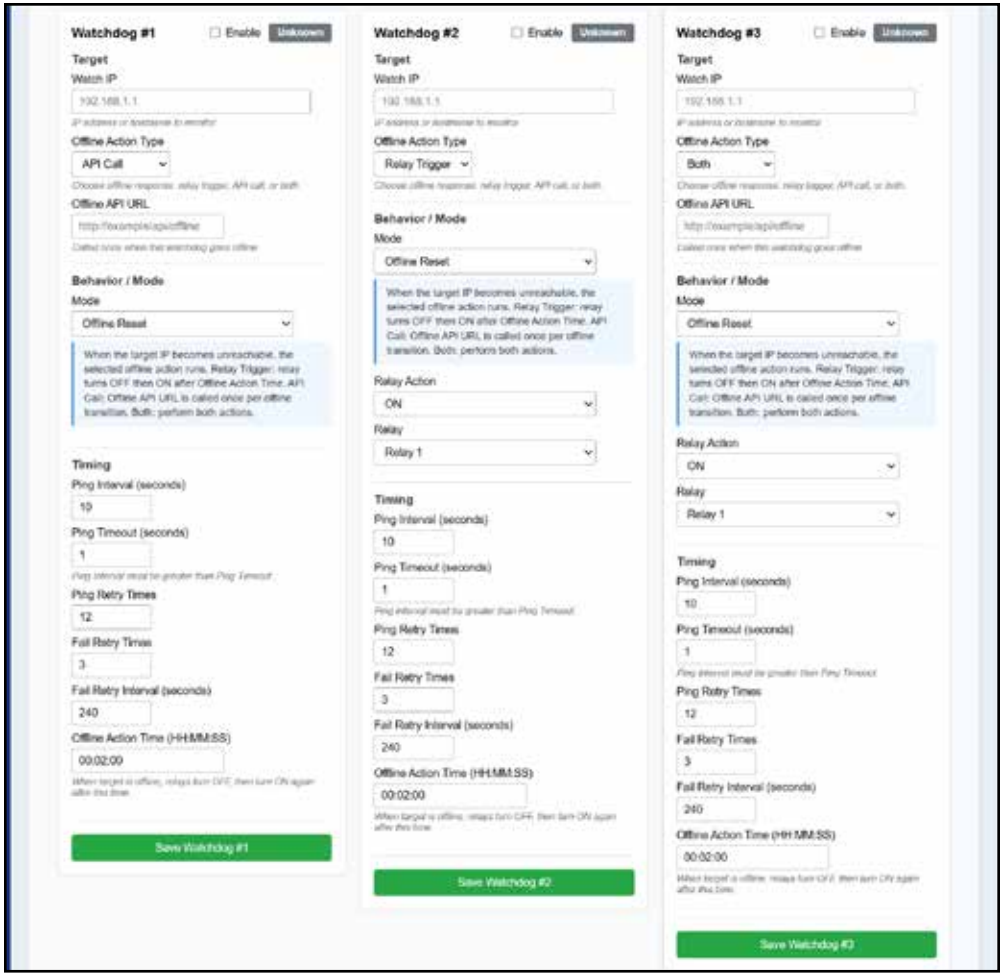
Integrated Firmware Upgrade Workflow

- Direct upgrade flow in UI with
  `Firmware Upgrade` modal and `Upgrade URL`.
- OTA-capable firmware lifecycle for field updates.

New Features in LP-WR2CH-XPRO Firmware

Advanced Monitoring and Automation

- Multiple watchdog profiles (`Watchdog #1` to `Watchdog #9`).
- Scheduling and input-link automation from dedicated views.



New Features in LP-WR2CH-XPRO Firmware

Cloud Connectivity Option

- Cloud integration support available in firmware workflows (MQTT is still available in current UI where applicable).

New Features in LP-WR2CH-XPRO Firmware

Security and Network Improvements

- HTTPS support in server/upgrade flows.
- Modern Wi-Fi security mode support including WPA3.

For troubleshooting LanPoE Smart Networking Products, please reach out to our support team and provide detailed information for assistance.

Phone:
877-725-8869

Email:
sales@lanpoe.com