

2-Channel Web Relay Pro

LanPOE

Model: LP-WR2CH-XPRO
Type: Web Relay



Overview

The LP-WR2CH-XPRO is a 2-channel web relay for browser-based switching and automation. It supports Power over Ethernet (PoE), Ethernet, and Wi-Fi for flexible deployment across office, commercial, and industrial environments. It includes two relay outputs and two trigger inputs, with a web interface for configuration and control. Built-in scheduling and OTA firmware updates support reliable long-term operation. The platform is designed to reduce installation complexity while maintaining professional-grade control flexibility. Standard network support, secure management access, and configurable relay behaviors allow the device to fit both standalone projects and larger managed deployments.

Features

- 2 relay channels through a web browser.
- 2 trigger inputs for external buttons, sensors, or dry contacts.
- Relay operation modes: On/Off, Alternating, and Delay.
- Ethernet (RJ45) and Wi-Fi (802.11 b/g/n) connectivity.
- Secure web access via HTTPS.
- OTA firmware updates using HTTP/HTTPS URLs.
- Optional Cloud support for platform integration.
- Built-in NTP time sync, IP Watchdog, and Task Timer.
- Web dashboard for configuration, monitoring, and operation.

Specifications

Function

Interface

- RJ45 Ethernet + Wi-Fi
- Ethernet speed: 10/100 Mbps
- Wi-Fi stand

Access Defaults

- RJ45 IP: `192.168.1.100`
- Username: `admin`
- Password: `admin`
- Wi-Fi AP SSID: `relay (serial number)`
- Wi-Fi AP Password: `password`
- Wi-Fi AP IP: `192.168.7.1`

Configuration

- DHCP or Static IP
- Interface priority selection (Ethernet-first or Wi-Fi-first)
- Automatic fallback between Ethernet & Wi-Fi (Change all default credentials after initial login)

Protocol

- HTTP/ GET / CGI / UDP
- HTTPS (secure web access and OTA transport)

Others

- NTP Time Sync
- IP Watchdog
- Task Timer
- OTA firmware upgrade (HTTP/HTTPS URL-based)
- Cloud integration
- Wi-Fi security mode support including WPA3

2 Outputs, 2 Trigger Inputs

Relay Power

- AC 250V/10A
- DC 30V/10A

Contacts

- Normally Close (NC)
- Normally Open (NO)

Delay

- 1-65,535 seconds

Momentary

- 0.5 seconds pulse, automatically release

Specifications

Temperature & Humidity

Storage Temperature	• -40°F to 150°F
Operating Temperature	• -20°F to +150°F
Relative Humidity (during operation)	• 77°F @ ≤95%, no condensation

Power

Power Specifications	• PoE, 12/24VDC
Current	• 2 channel: 0.15A/12V(recommend 1A/12V)
Power Consumption	• 2 channel: 2W

Firmware & Management

- Firmware file name: `web_relay_firmware.bin`
- Upgrade methods: Web dashboard and API-based OTA workflow.
- Security recommendation: Use HTTPS firmware hosting in production.

New in XPRO Firmware:

- OTA firmware upgrade workflow with HTTP/HTTPS URL updates.
- Expanded Wi-Fi security mode support, including WPA3.
- Configurable network priority and automatic Ethernet/Wi-Fi fallback behavior.
- Improved firmware lifecycle workflow for managed upgrades.

Ordering & Support

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

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