

LGIDTECH PZ2-EU

LGIDTECH PZ2 Zigbee 3.0 High Power 2 in 1 LED Strip Light Controller User Manual

Model: PZ2-EU | Brand: LGIDTECH

1. INTRODUCTION

The LGIDTECH PZ2 is a versatile 2-in-1 LED controller designed for both single color and CCT (dual white) LED strip lights. It integrates Zigbee 3.0 and 2.4G wireless communication protocols, offering flexible control options including compatibility with Philips Hue and other Zigbee 3.0 gateways, as well as various remote controllers. This manual provides essential information for setting up, operating, and maintaining your PZ2 controller.

2. PRODUCT FEATURES

- **2-in-1 Functionality:** Supports control of single color LED strip lights (2 wires) and CCT dual white LED strip lights (3 wires).
- **Wide Input Voltage:** Operates on DC 12V to 48V.
- **High Output Current:** Max output of 20A per channel, with a total maximum output of 20A.
- **Dual Communication Protocols:** Features Zigbee 3.0 and 2.4G for robust connectivity.
- **Extended Control Distance:** Zigbee control up to 100 meters (328ft) in open areas; 2.4G control up to 30 meters (98ft).
- **Smart Home Compatibility:** Compatible with Philips Hue, Amazon Echo Plus (2nd Gen), Echo (4th Gen), Echo Studio, Echo Show (2nd Gen), and IKEA TRÅDFRI via a Zigbee 3.0 gateway.
- **Remote Control Support:** Can be controlled by various remote controllers such as FUT007, FUT096, FUT092, FUT089, B2, B3, B4, B8.
- **DMX512 Functionality:** Available for RGB+CCT output mode with an additional FUTD01 transmitter (sold separately).

Features

Made by new Zigbee 3.0 wireless transmitting technology with low power consumption, strong ability to build network automatically and anti-interference. with MiBoxer Zigbee gateway to get wireless dimming color, remote control, timing control, group control, music rhythm function. Support 2.4G RF remote control.



Name: 2 in 1 LED Controller (Zigbee 3.0 +2.4G)

Model Number: PZ2

Sold by brand: LGIDTECH

Input Voltage: DC12~48V

Output: 20A/Channel

Total Output: Max 20A

Communication Protocol: Zigbee 3.0 + 2.4GHz

Control Distance:

Zigbee: 100meters=328ft (in open area)

2.4G RF: 30meters=98ft

Working Temperature: -10~40°C

Wireless Technology: Zigbee 802.15.4

Wireless Frequency: 2.400-2.480GHz



Figure 2.1: Key features of the PZ2 controller, including color temperature adjustment, dimming, auto-transmitting, Zigbee 3.0

protocol support, app control, and third-party voice control.

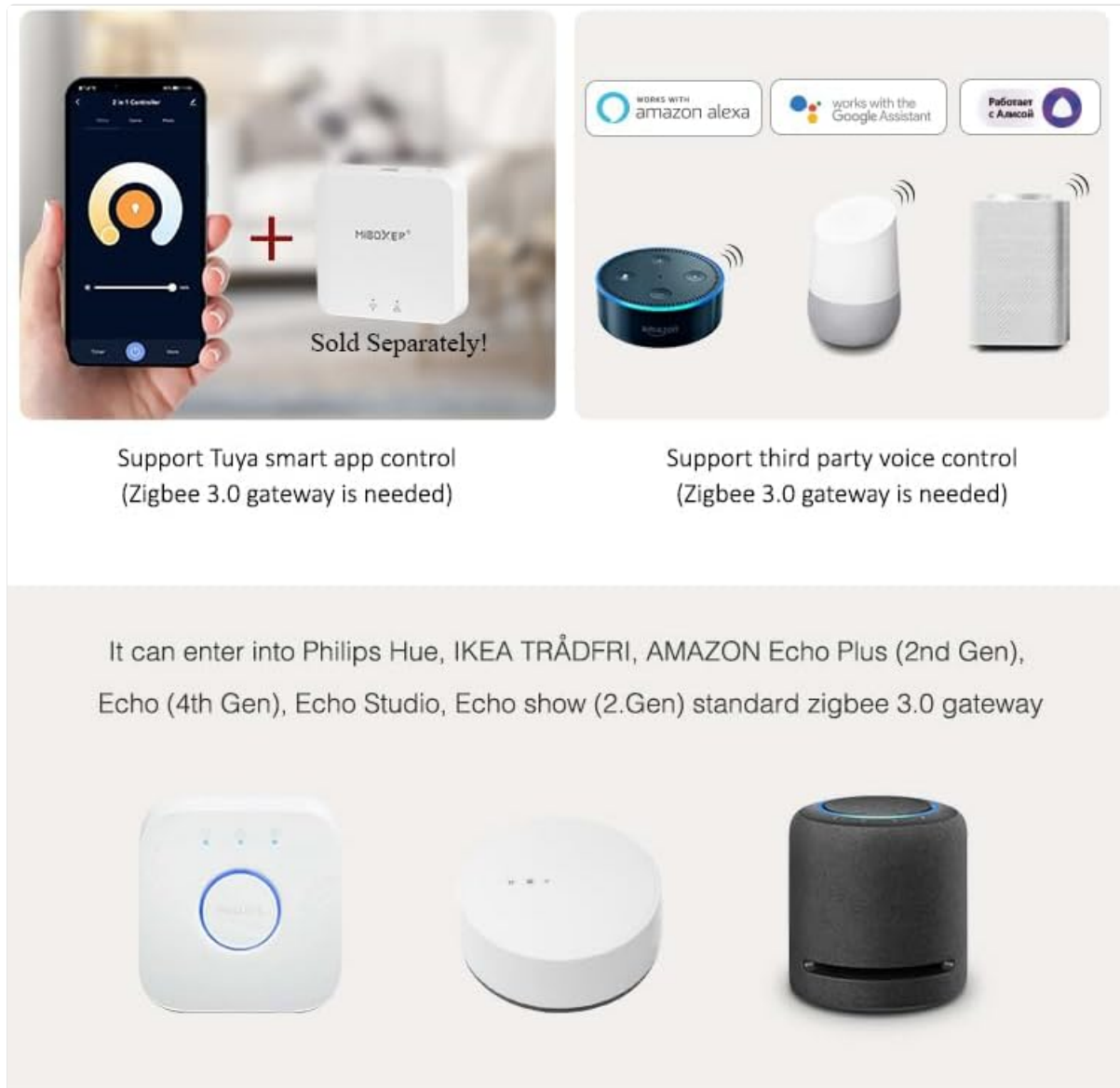


Figure 2.2: The PZ2 controller supports Tuya smart app control and third-party voice control (both require a Zigbee 3.0 gateway). It is compatible with Philips Hue, IKEA TRÅDFRI, and Amazon Echo devices with Zigbee 3.0 functionality.

3. SPECIFICATIONS

Parameter	Value
Product Name	2 in 1 LED Controller
Model Number	PZ2
Input Voltage	DC 12V ~ 48V
Output Current	20A/Channel
Total Output	Max 20A
Communication Protocol	Zigbee 3.0 + 2.4G
Zigbee Control Distance	100 meters (328ft) in open area
2.4G Control Distance	30 meters (98ft)

Working Temperature	-10°C ~ 40°C
Wireless Technology	Zigbee 802.15.4
Wireless Frequency	2.400-2.480GHz
Dimensions	4.72 x 2.01 x 1.06 inches
Item Weight	2.96 ounces



Figure 3.1: Overview of the PZ2 controller with labeled input (V+, V-) and output (V+, W, CW, WW) terminals, along with the 'SET' button and indicator lights.

4. SETUP AND INSTALLATION

Before installation, ensure the power supply is disconnected. The PZ2 controller supports both single color and dual white (CCT) LED strip lights. Please follow the appropriate wiring diagram for your LED strip type.

4.1 Wiring for Single Color LED Strip

For single color LED strips, connect the positive (+) wire of the LED strip to the V+ output terminal and the negative (-) wire to the W output terminal on the controller. Ensure the input power supply (DC 12-48V) is connected to the V+ and V- input terminals.

Connection Diagram

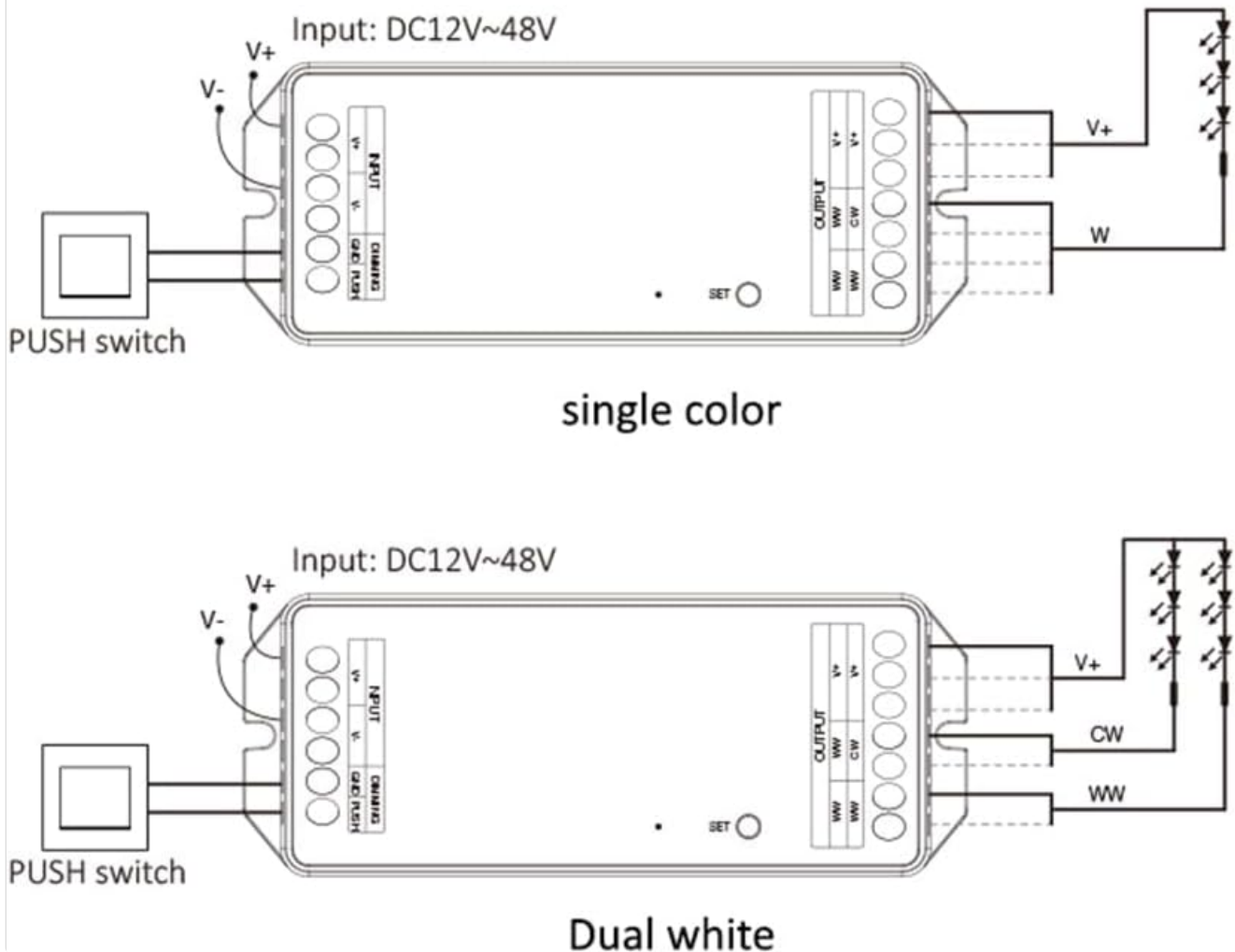


Figure 4.1: Wiring diagram for connecting a single color LED strip to the PZ2 controller. Input power (DC12~48V) connects to V+ and V-. The LED strip connects to V+ and W output terminals.

4.2 Wiring for Dual White (CCT) LED Strip

For dual white (CCT) LED strips, connect the common positive (+) wire of the LED strip to the V+ output terminal. Connect the Warm White (WW) wire to the WW output terminal and the Cold White (CW) wire to the CW output terminal. Ensure the input power supply (DC 12-48V) is connected to the V+ and V- input terminals.



Figure 4.2: Wiring diagram for connecting a dual white LED strip to the PZ2 controller. Input power (DC12~48V) connects to V+ and V-. The LED strip connects to V+, CW, and WW output terminals.

Important: Always ensure correct polarity and secure connections to prevent damage to the controller or LED strips. The maximum load for a DC 12V LED strip is 240W (20A * 12V), and for a DC 24V LED strip is 480W (20A * 24V).

5. OPERATING INSTRUCTIONS

The PZ2 controller offers multiple ways to operate your LED strip lights.

5.1 Using the 'SET' Button

- **Activate Linking Mode:** Press the 'SET' button once to activate linking mode.
- **Change Output Mode:** Press the 'SET' button continuously to cycle through different output modes (e.g., single color, dual white).
- **Activate Zigbee Pairing Mode:** Long press the 'SET' button for 3 seconds until the indicator flashes quickly. This puts the controller into Zigbee pairing mode.

5.2 Smart Control via Zigbee Gateway

To control the PZ2 controller with a smartphone app or voice commands, a Zigbee 3.0 gateway is required. The controller is compatible with LGIDTECH's ZB-Box2 or ZB-Box3 gateways, as well as Philips Hue, Amazon Echo Plus (2nd Gen), Echo (4th Gen), Echo Studio, Echo Show (2nd Gen), and IKEA TRÅDFRI gateways that support Zigbee 3.0.

Once paired with a compatible Zigbee gateway, you can use the respective smartphone application (e.g., Philips Hue app, Amazon Alexa app) to control brightness, color temperature (for CCT strips), and other functions.

5.3 Remote Control

The PZ2 controller can also be controlled using various compatible remote controllers such as FUT007, FUT096, FUT092, FUT089, B2, B3, B4, and B8. Refer to the specific remote controller's manual for pairing instructions and functionality.

6. MAINTENANCE

The LGIDTECH PZ2 LED controller requires minimal maintenance. Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or abrasive materials. Ensure the controller is installed in a dry environment, as it is not water resistant.

7. TROUBLESHOOTING

- **LED Strip Not Lighting Up:**

- Check if the power supply is connected correctly and providing the correct voltage (DC 12-48V).
- Verify all wiring connections between the power supply, controller, and LED strip are secure and correct according to the diagrams in Section 4.
- Ensure the LED strip itself is functional.

- **Controller Not Responding to App/Voice Commands:**

- Confirm that a compatible Zigbee 3.0 gateway is properly set up and connected to your network.
- Ensure the PZ2 controller is successfully paired with your Zigbee gateway. Try re-entering pairing mode (long press 'SET' button for 3 seconds) and re-pairing if necessary.
- Check the internet connection of your gateway and smart device.

- **Controller Not Responding to Remote:**

- Ensure the remote controller is compatible with the PZ2.
- Check the remote's battery.
- Follow the remote's specific pairing instructions to link it with the PZ2 controller.

- **Intermittent Control:**

- Reduce the distance between the controller and the Zigbee gateway or remote.
- Minimize obstructions (e.g., thick walls, metal objects) that might interfere with wireless signals.
- Check for other devices operating on the 2.4GHz frequency that might cause interference.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact LGIDTECH customer service. You may also refer to the official Miboxer website for additional product details and support resources: miboxer.com/light/m_n/pz2-5.html.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question