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QIACHIP QAPWM02

QIACHIP Wireless Dimmable & Adjustable Speed Module QAPWM02 User Manual

Model: QAPWM02

1. Introduction

This manual provides instructions for the QIACHIP Wireless Dimmable & Adjustable Speed Module (Model QAPWM02). This module is designed to control the brightness of LED lights and the speed of DC motors. It operates within a wide voltage range and is controlled wirelessly via a 433MHz remote control, offering convenient adjustment and on/off functionality.





Image 1: QIACHIP Wireless Dimmable & Adjustable Speed Module and Remote Control.

2. Package Contents

- 1 x PWM Module (QAPWM02)
- 1 x Wireless Remote Control (includes 1 CR2032 battery)

3. Setup

3.1 Component Identification

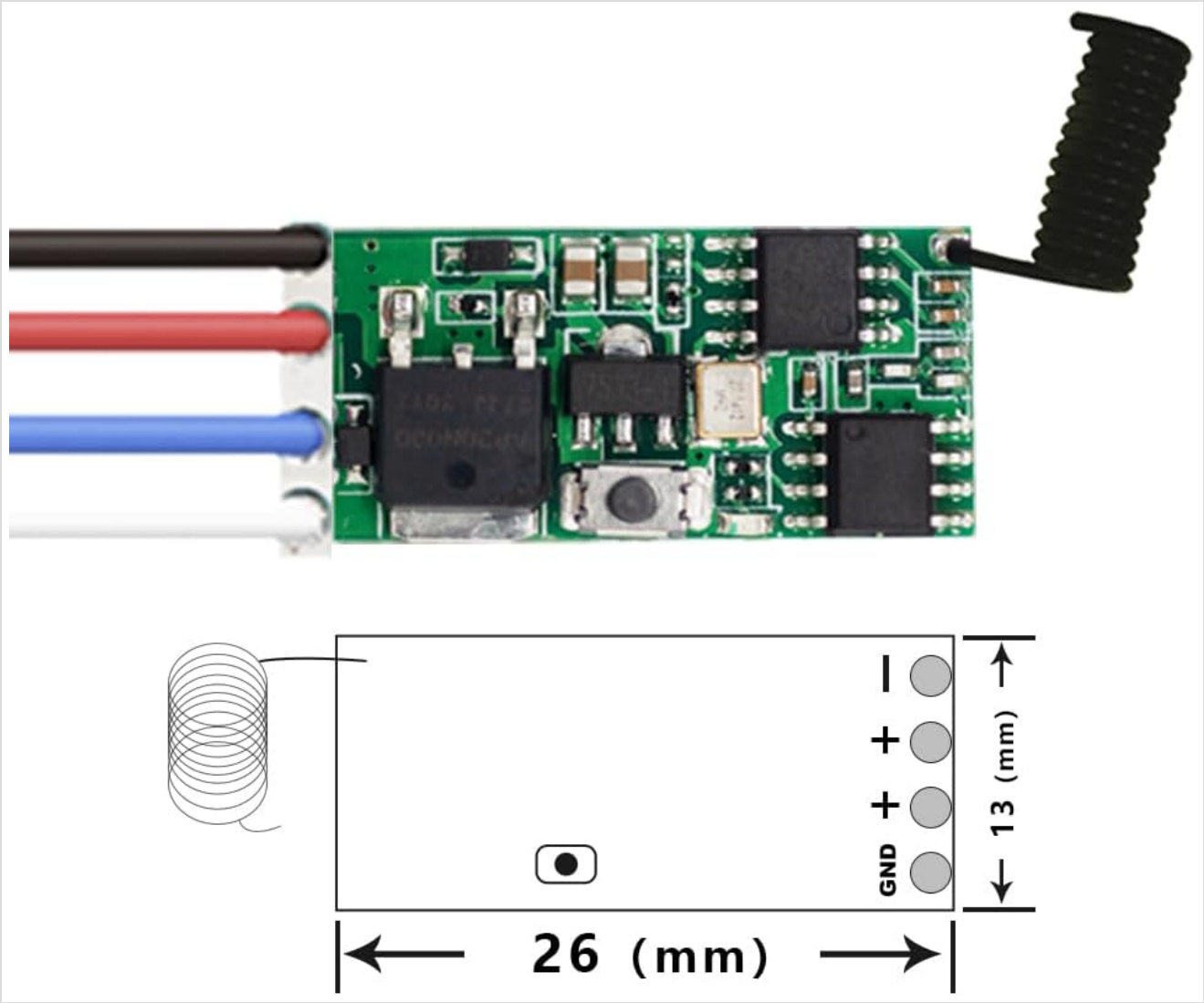


Image 2: PWM Module with Indicator LED, Learning Button, and connection points labeled.

- **Indicator LED:** Shows module status.
- **Learning Button:** Used for pairing the remote control.
- **DC 3.6V ~ 24V Input:** Power input terminals (Positive and Negative).
- **Motor/Light Output:** Output terminals for connecting a DC motor or LED light.

3.2 Wiring Instructions

Ensure the power supply is disconnected before making any connections. Connect the module to your power source and load (DC motor or LED light) as shown in the diagram below. Pay close attention to polarity.

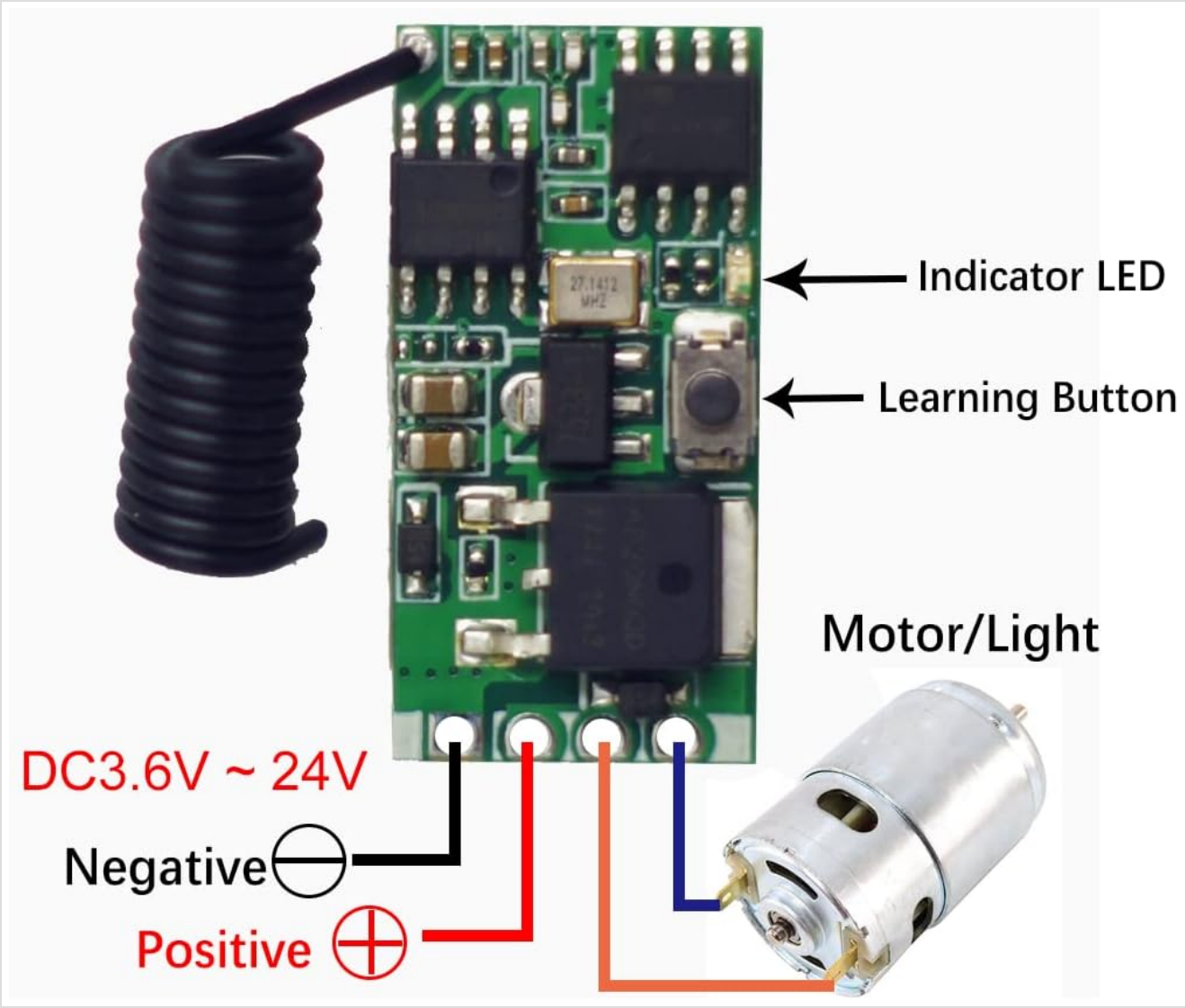


Image 3: Wiring diagram showing connections for power input and a DC motor. Connect the positive (+) terminal of your DC power supply to the module's positive input, and the negative (-) terminal to the module's negative input. Connect your DC motor or LED light to the module's output terminals.

- Connect the **Positive (+)** terminal of your DC power supply (3.6V-24V) to the module's**Positive (+)** input.
- Connect the **Negative (-)** terminal of your DC power supply to the module's**Negative (-)** input.
- Connect your DC motor or LED light to the module's**Output** terminals. Polarity for the output depends on the motor's desired direction or LED's polarity, but the module will control the power flow.

3.3 Pairing the Remote Control

1. Ensure the module is powered on.
2. Press and hold the **Learning Button** on the module for approximately 3 seconds until the Indicator LED blinks.
3. While the LED is blinking, press any button on the remote control (e.g., the '▲' button).
4. The Indicator LED on the module will blink twice and then remain solid, indicating successful pairing.
5. Test the remote control functionality.

Note: If pairing fails, a factory reset may be required. To perform a factory reset, press the Learning Button on the module 9 times rapidly. The module will reset, and you can then attempt the pairing process again.

4. Operating Instructions

Once the module is wired and the remote control is paired, you can operate your connected device.

- ▲ **(Up Arrow) Button:** Press to increase the light brightness or increase the motor speed.
- ▼ **(Down Arrow) Button:** Press to decrease the light brightness or lower the motor speed.
- ■ **(Square) Button:** Press to turn the light or motor on/off.

The wireless remote control has an effective operating range of approximately 10 to 100 meters, depending on environmental conditions and obstacles.

5. Maintenance

5.1 General Care

- Keep the module and remote control dry and away from excessive moisture.
- Avoid exposing the devices to extreme temperatures.
- Clean the devices with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

5.2 Remote Control Battery Replacement

The remote control uses one CR2032 coin cell battery. If the remote's indicator light does not illuminate or its range decreases significantly, replace the battery.

1. Locate the battery compartment on the remote control.
2. Open the compartment (usually by sliding a cover or unscrewing a small screw).
3. Remove the old CR2032 battery.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Close the battery compartment securely.

6. Troubleshooting

- **Module Not Powering On:**
  - Check all power connections to ensure they are secure and correctly polarized.
  - Verify that your power supply is within the 3.6V-24V DC range and is providing sufficient current.
- **Remote Control Not Responding:**
  - Check the remote control battery (CR2032) and replace if necessary.
  - Ensure the remote control is within the operating range of the module.
  - Re-pair the remote control with the module following the instructions in Section 3.3.
  - If re-pairing fails, perform a factory reset on the module (press the Learning Button 9 times) and then attempt pairing again.
- **Motor/Light Not Responding or Functioning Incorrectly:**
  - Verify that the motor or LED light is correctly wired to the module's output terminals.
  - Ensure the motor or LED light is compatible with the module's voltage and current specifications (max 3A continuous, 5A peak).
  - Check for any loose connections at the load.

7. Specifications

Feature	Specification
Model Number	QAPWM02
Brand	QIACHIP
Input Voltage	DC 3.6V - 24V
Output Current	3A (continuous), 5A (peak)
Control Frequency	433MHz
Remote Control Range	10 - 100 meters (open area)
Remote Battery Type	1 x CR2032 (included)
Material	Copper
Manufacturer	KOSEL

8. Warranty Information

Please refer to the product packaging or the official QIACHIP website for detailed warranty information and terms.

9. Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact QIACHIP customer service through their official channels or the retailer from whom the product was purchased.

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