

## OAMIROMIA PSF-B04

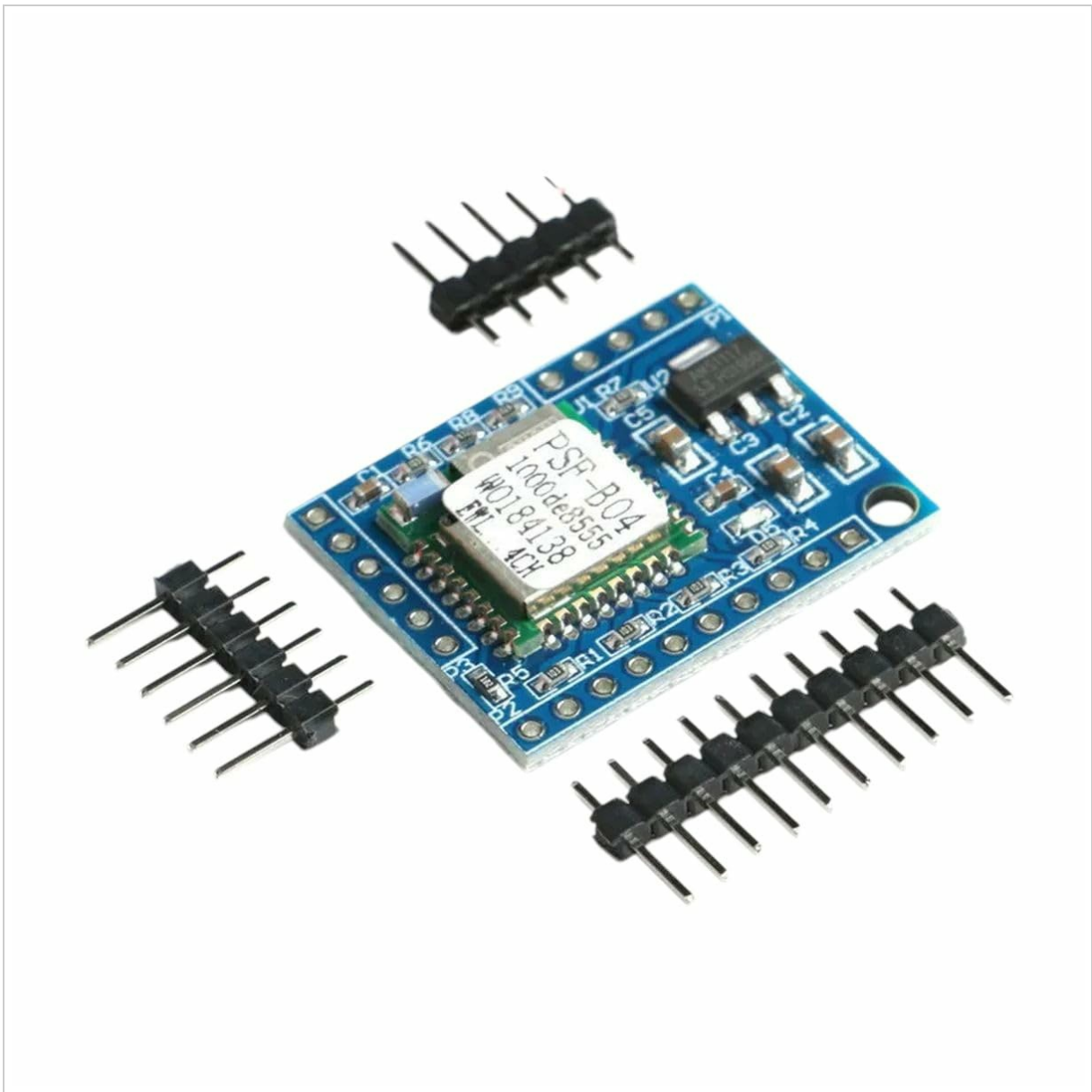
# OAMIROMIA PSF-B04 Remote Control Board Module User Manual

Model: PSF-B04

## 1. INTRODUCTION

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The OAMIROMIA PSF-B04 is a compact remote control board module designed for microcontroller development and DIY projects. This module features a 4-way switch functionality, enabling control via a connected phone. It is intended for users with a basic understanding of electronics and microcontroller programming.



**Figure 1:** The PSF-B04 Remote Control Board Module. This image displays the compact blue PCB with various surface-mount components, including a central module labeled "PSF-B04" and several header pins for connection to external circuits.

## 2. SETUP INSTRUCTIONS

Before operating the PSF-B04 module, ensure proper physical and electrical connections are established.

### 2.1. Component Identification

Familiarize yourself with the module's pins and components. The module typically includes power input pins (VCC, GND), data pins for the 4-way switch, and communication pins for microcontroller interfacing.

### 2.2. Power Supply

- Connect the VCC pin to a stable power source (e.g., 3.3V or 5V, depending on the specific module's requirements).
- Connect the GND pin to the ground of your power supply and microcontroller.
- Ensure the power supply voltage matches the module's operating voltage to prevent damage.

### 2.3. Microcontroller Connection

Connect the module's data pins to appropriate General Purpose Input/Output (GPIO) pins on your chosen microcontroller (e.g., Arduino, ESP32, Raspberry Pi). The specific pin assignments will depend on your project's

design and the microcontroller's capabilities.

## 2.4. Software Configuration

Develop or upload firmware to your microcontroller to interface with the PSF-B04 module. This firmware should:

- Initialize the GPIO pins connected to the module.
- Implement logic to read the 4-way switch inputs.
- Establish communication with the phone (e.g., via Bluetooth, Wi-Fi, or a dedicated app) to send control commands or receive status updates.

## 3. OPERATING INSTRUCTIONS

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Once the module is set up and the microcontroller is programmed, you can begin operating the 4-way switch functionality.

### 3.1. Basic Operation

1. Ensure the microcontroller and PSF-B04 module are powered on.
2. Connect your phone to the microcontroller via the configured communication method (e.g., pair Bluetooth, connect to Wi-Fi network).
3. Use the dedicated phone application or interface to send commands corresponding to the 4-way switch functions.
4. Observe the module's response or the controlled device's action.

### 3.2. 4-Way Switch Functionality

The 4-way switch typically allows for four distinct directional inputs (e.g., Up, Down, Left, Right) or four independent control signals. Your microcontroller firmware will interpret these inputs and execute corresponding actions.

## 4. MAINTENANCE

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The PSF-B04 module is designed for durability, but proper care can extend its lifespan.

- **Cleaning:** Use a soft, dry cloth to gently clean the module. Avoid using liquids or abrasive cleaners.
- **Storage:** Store the module in a dry, anti-static environment, away from extreme temperatures and direct sunlight.
- **Handling:** Handle the module by its edges to avoid touching components, especially when powered. Static electricity can damage sensitive electronic parts.

## 5. TROUBLESHOOTING

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If you encounter issues with your PSF-B04 module, consider the following troubleshooting steps:

- **No Power:**
  - Verify that the power supply is connected correctly and providing the specified voltage.
  - Check for loose connections or damaged wires.
- **Module Not Responding:**
  - Confirm that the microcontroller is powered and running its program.
  - Inspect the data connections between the module and the microcontroller.

- Review your microcontroller's firmware for correct pin assignments and logic.

- **Phone Control Issues:**

- Ensure the phone is properly paired or connected to the microcontroller.
- Check the phone application settings and permissions.
- Verify the communication protocol (e.g., Bluetooth, Wi-Fi) is active and configured correctly.

For persistent issues, consult relevant online forums or the manufacturer's support resources.

## 6. SPECIFICATIONS

<b>Model</b>	PSF-B04
<b>Brand</b>	OAMIROMIA
<b>Function</b>	4-Way Switch Remote Control Board Module for Microcontroller Development
<b>ASIN</b>	B0F38TMZQS
<b>Manufacturer</b>	OAMIROMIA
<b>Date First Available</b>	August 13, 2025

## 7. WARRANTY INFORMATION

Warranty terms and conditions for the OAMIROMIA PSF-B04 module are provided by the manufacturer or seller at the time of purchase. Please refer to your purchase documentation or contact the seller directly for specific warranty details, duration, and claim procedures.

## 8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding the OAMIROMIA PSF-B04 module, please contact the seller or manufacturer through the platform where the product was purchased. Ensure you have your product model number (PSF-B04) and purchase details readily available when seeking support.