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› LEDLUX Mini Smart Switch Module (A_SHB104B) User Manual

LEDLUX A_SHB104B

LEDLUX Mini Smart Switch Module (A_SHB104B)

User Manual

1. INTRODUCTION

Thank you for choosing the LEDLUX Mini Smart Switch Module. This device is designed to transform your traditional switches into smart ones, allowing for remote control via Wi-Fi, Bluetooth, and RF 433MHz protocols. It is compatible with popular smart home platforms like Amazon Alexa and Google Home, offering convenient voice control and app-based management.

This manual provides detailed instructions for installation, setup, operation, and troubleshooting to ensure you get the most out of your smart switch module.



Image 1.1: The LEDLUX Mini Smart Switch Module shown alongside a smartphone displaying the control app, and logos for Google Assistant, Amazon Alexa, and Tuya. This illustrates the module's smart home compatibility and app control capabilities.

2. SAFETY INFORMATION

Please read this section carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Installation must be performed by a qualified electrician or service personnel.
- Ensure the power supply is disconnected before installation or maintenance.
- Do not exceed the maximum load capacity of 10A / 2500W.
- This device is designed for indoor use only.
- Keep the device away from water, moisture, and high temperatures.
- Do not attempt to repair or modify the device yourself. Contact customer support for assistance.

3. PRODUCT OVERVIEW

3.1 Features

- **Multi-Protocol Connectivity:** Supports Wi-Fi 2.4GHz, Bluetooth, and RF 433MHz for versatile control options.
- **Voice Control:** Compatible with Amazon Alexa, Google Home, Google Nest, and Amazon Echo devices.
- **App Control:** Manage devices remotely using the 'Tuya' or 'Smart Life' app.
- **Compact Design:** Small size (approximately 47x52x18mm) allows for easy installation inside standard electrical wall boxes.

- **Timer Function:** Schedule devices to turn on/off automatically.
- **Remote Control:** Control connected appliances like lights, electric kettles, air conditioners, and washing machines from anywhere.
- **N.O. Button Function:** Supports connection with a Normally Open (N.O.) push button switch.

3.2 Package Contents

- 1 x LEDLUX Mini Smart Switch Module (A_SHB104B)
- 1 x User Manual (this document)

3.3 Specifications

Specification	Value
Brand	LEDLUX
Model	A_SHB104B
Operating Voltage	220 Volts
Rated Current	10 Amperes
Max Wattage	2200 Watts
Connectivity Protocol	Wi-Fi 2.4GHz, Bluetooth, RF 433MHz
Operating Mode	On-Off-On
Contact Type	Normally Open (N.O.)
Switch Type	Smart Switch
Material	Plastic (Housing), Copper (Contact)
Item Dimensions (LxWxH)	Approx. 47 x 52 x 18 mm (1.85 x 2.05 x 0.71 inches)
Mounting Type	Surface Mount
Control Method	Remote (App, Voice, RF)
Compatible Devices	Amazon Echo, Echo Dot, Amazon Tap, Google Home, Google Nest
Country of Origin	China



Image 3.1: Detailed dimensions of the smart switch module, showing its compact size of approximately 47mm x 52mm x 18mm.

4. SETUP

4.1 Wiring Diagram

Before wiring, ensure the main power supply is turned OFF at the circuit breaker. Incorrect wiring can damage the device or cause electric shock.

- **L:** Live Wire Input
- **N:** Neutral Wire Input
- **L1, L2:** Live Wire Output to Load (e.g., light bulb)
- **S1, S2:** Switch Input for traditional wall switch (N.O. button)

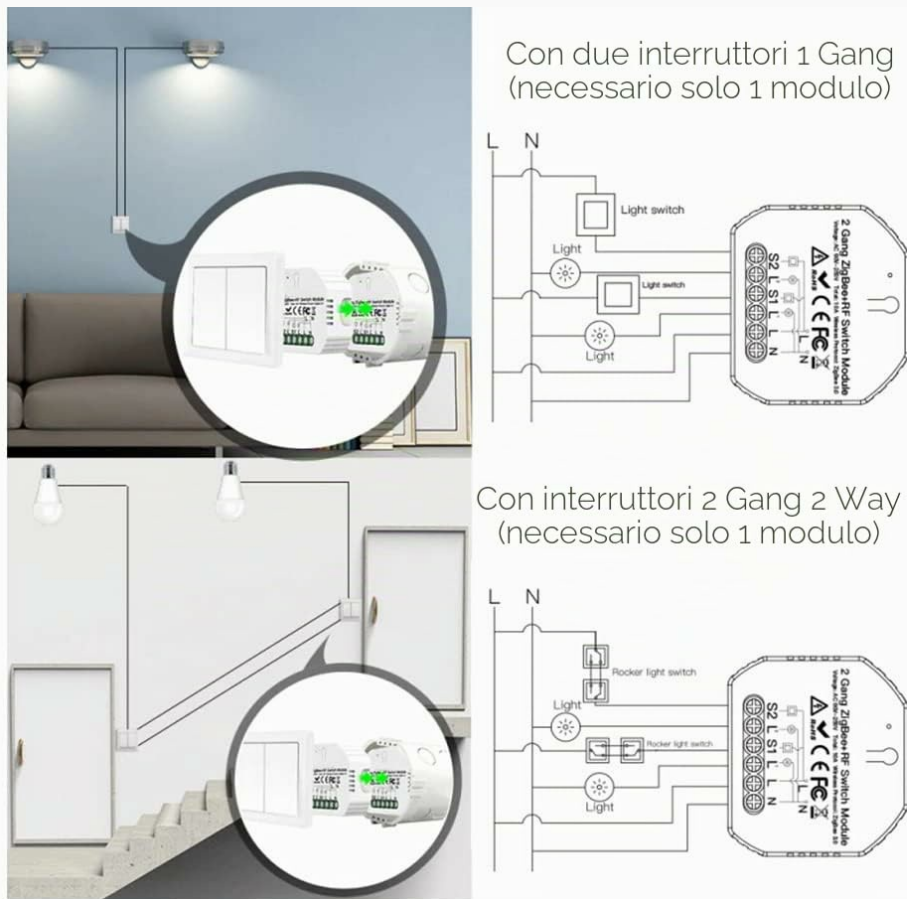


Image 4.1: Wiring diagrams illustrating how to connect the smart switch module with both single-gang and two-gang traditional wall switches. This shows the necessary connections for live, neutral, and switch inputs.



Image 4.2: An example of the smart switch module installed within a standard wall box, demonstrating its compact fit behind a traditional wall switch.

4.2 App Installation and Pairing

1. Download the 'Tuya Smart' or 'Smart Life' app from your smartphone's app store (iOS or Android).
2. Register or log in to your account.
3. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network.
4. Power on the smart switch module. The indicator light should blink rapidly, indicating it's in pairing mode. If not, press and hold the reset button on the module for 5-10 seconds until it blinks rapidly.
5. In the app, tap '+' to add a device. The app should automatically discover the module via Bluetooth. If not, manually select 'Electrical Switch' or 'Switch (Wi-Fi)' from the device list.
6. Follow the on-screen instructions to connect the module to your Wi-Fi network.
7. Once successfully paired, you can rename the device and assign it to a room.

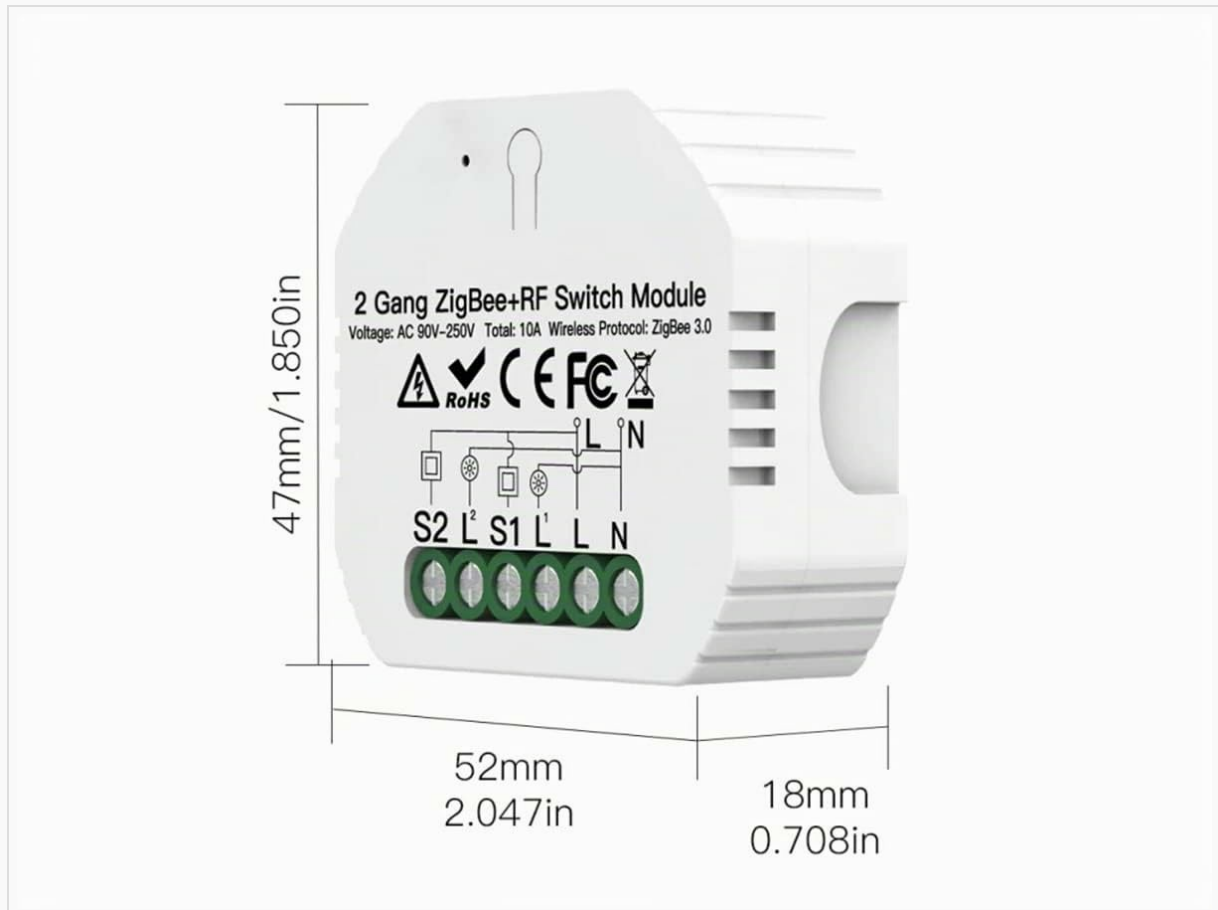


Image 4.3: A smartphone screen showing the 'Add Device' interface within the smart home app, along with an illustration of family members sharing control of smart devices.

4.3 RF 433MHz Pairing (Optional)

To pair with an RF 433MHz remote control (not included):

1. Ensure the module is powered on.
2. Press the pairing button on the module (often the reset button, refer to specific product markings) once. The indicator light may change its blinking pattern.
3. Within a few seconds, press the desired button on your RF 433MHz remote control.
4. The indicator light on the module should confirm successful pairing (e.g., blink a few times and then turn off).
5. Repeat for other buttons if your remote has multiple channels.

5. OPERATING INSTRUCTIONS

5.1 App Control

Once the module is paired with the 'Tuya Smart' or 'Smart Life' app:

- Open the app and select your device.
- You can turn the connected appliance ON or OFF directly from the app interface.
- Access settings to set timers, schedules, or create automation routines.
- Share control of the device with family members through the app's sharing features.

5.2 Voice Control

To enable voice control, link your 'Tuya Smart' or 'Smart Life' account with Amazon Alexa or Google Home:

1. Open the Amazon Alexa or Google Home app.
2. Navigate to 'Skills & Games' (Alexa) or 'Works with Google' (Google Home).
3. Search for 'Tuya Smart' or 'Smart Life' and enable the skill/service.
4. Link your account by entering your app credentials.
5. Discover devices. Your smart switch module should appear.

You can now use voice commands such as:

- "Alexa, turn on [Device Name]."
- "Hey Google, turn off [Device Name]."
- "Alexa, set [Device Name] to 50%" (if dimming is supported by the connected load and module, though this module is primarily on/off).

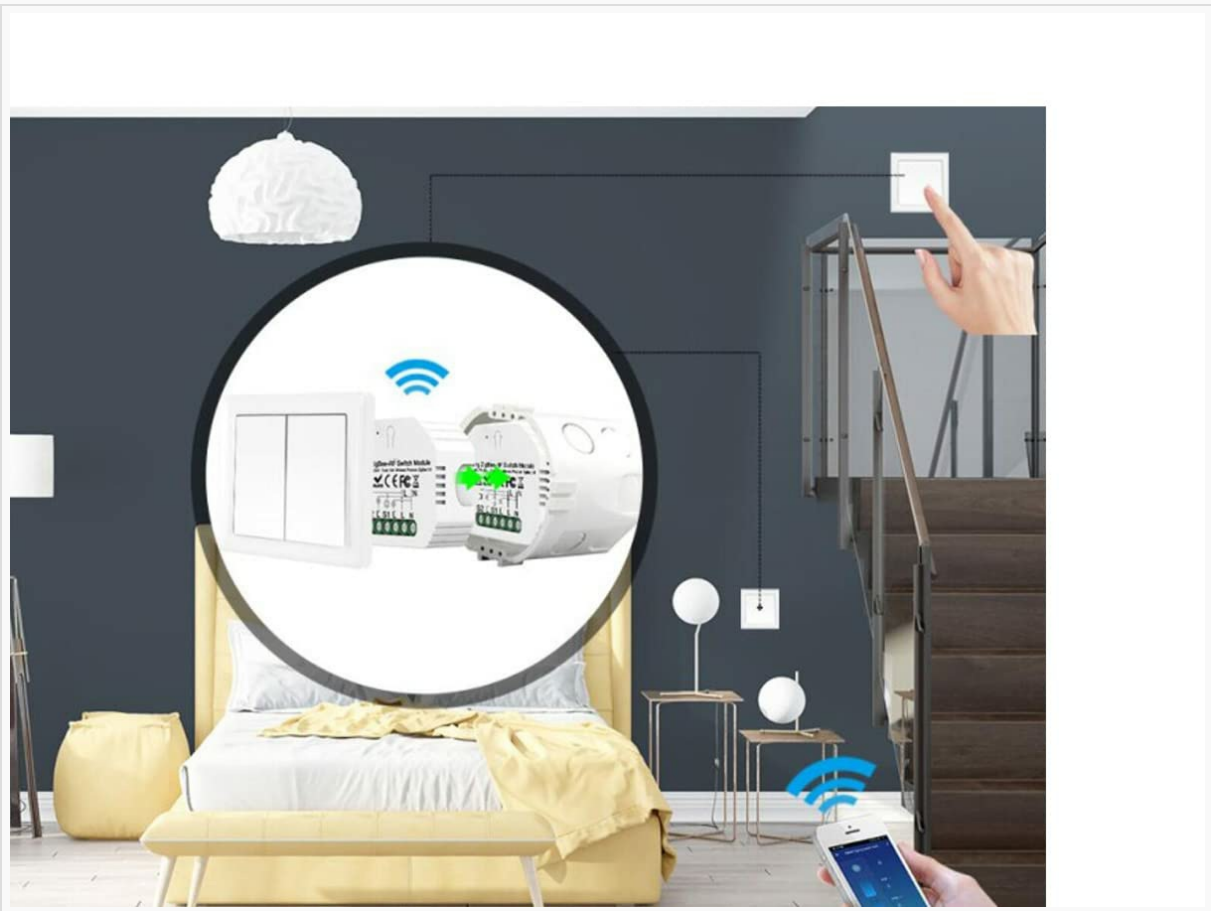


Image 5.1: Demonstrates hands-free voice control with Amazon Alexa and Google Home, showing example commands. It also highlights wireless remote control via a smartphone app.

5.3 RF 433MHz Remote Control

If you have paired an RF 433MHz remote control, simply press the corresponding button on the remote to turn the connected appliance ON or OFF.

6. MAINTENANCE

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Do not use harsh chemicals or abrasive cleaners.
- Regularly check wiring connections to ensure they are secure.
- Ensure the module is not exposed to extreme temperatures or direct sunlight.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not responding to app/voice commands.	No power, Wi-Fi disconnected, device offline, incorrect pairing.	• Check power supply to the module. • Ensure your Wi-Fi router is working and the module is within range. • Verify your phone is connected to a 2.4GHz Wi-Fi network. • Re-pair the device with the app if necessary (see Section 4.2). • Check if the app account is correctly linked to Alexa/Google Home.
Indicator light not blinking for pairing.	Not in pairing mode, power issue.	• Press and hold the reset button on the module for 5-10 seconds until the indicator blinks rapidly. • Check power connection.
RF 433MHz remote not working.	Not paired, remote battery low, interference.	• Ensure the remote is paired correctly (see Section 4.3). • Replace remote battery if applicable. • Reduce potential interference sources.
Traditional wall switch not working.	Incorrect wiring, faulty switch.	• Verify wiring according to Section 4.1. • Test the traditional switch independently if possible.

8. WARRANTY AND SUPPORT

LEDLUX products are designed for reliability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase or visit the official LEDLUX website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact LEDLUX customer service through the contact information provided on our website or your purchase platform. When

contacting support, please have your product model (A_SHB104B) and purchase details ready.