

JESSINIE B0BXDP3J5Q

JESSINIE 12V Bluetooth Relay Module User Manual

Model: B0BXDP3J5Q

1. PRODUCT OVERVIEW

1.1 Introduction

The JESSINIE 12V Bluetooth Relay Module is a high-performance device designed for wireless remote control applications using a mobile phone. It integrates an STM8S high-performance MCU and a serial port slave module, enabling control of various electrical loads via Bluetooth. This module is ideal for Internet of Things (IoT) projects requiring remote switching capabilities.

1.2 Key Features

- **Wireless Control:** Enables mobile phone wireless control, allowing switching on and off from anywhere within range.
- **Extended Range:** Achieves a maximum stable transmission distance of 10m in an open environment.
- **Easy Configuration:** Mobile APP is designed for easy configuration and operation.
- **APP Compatibility:** Supports dedicated Bluetooth relay apps and general Bluetooth apps from Android App Stores.
- **High Reliability Relay:** Features an on-board 12V, 10A/250V AC, 10A/30V DC relay, capable of 100,000 continuous closing cycles, with diode leakage protection and fast response time.
- **Status Indicators:** Includes on-board Bluetooth status indicator and relay indicator for easy monitoring.
- **Debugging Interface:** Reserved UART debugging interface and STM8 SWIM program download interface.

2. PRODUCT COMPONENTS

2.1 Module Layout

The module consists of a Bluetooth communication chip, an STM8S microcontroller, a relay, and terminal blocks for power and load connections. Below are images illustrating the module's layout and dimensions.

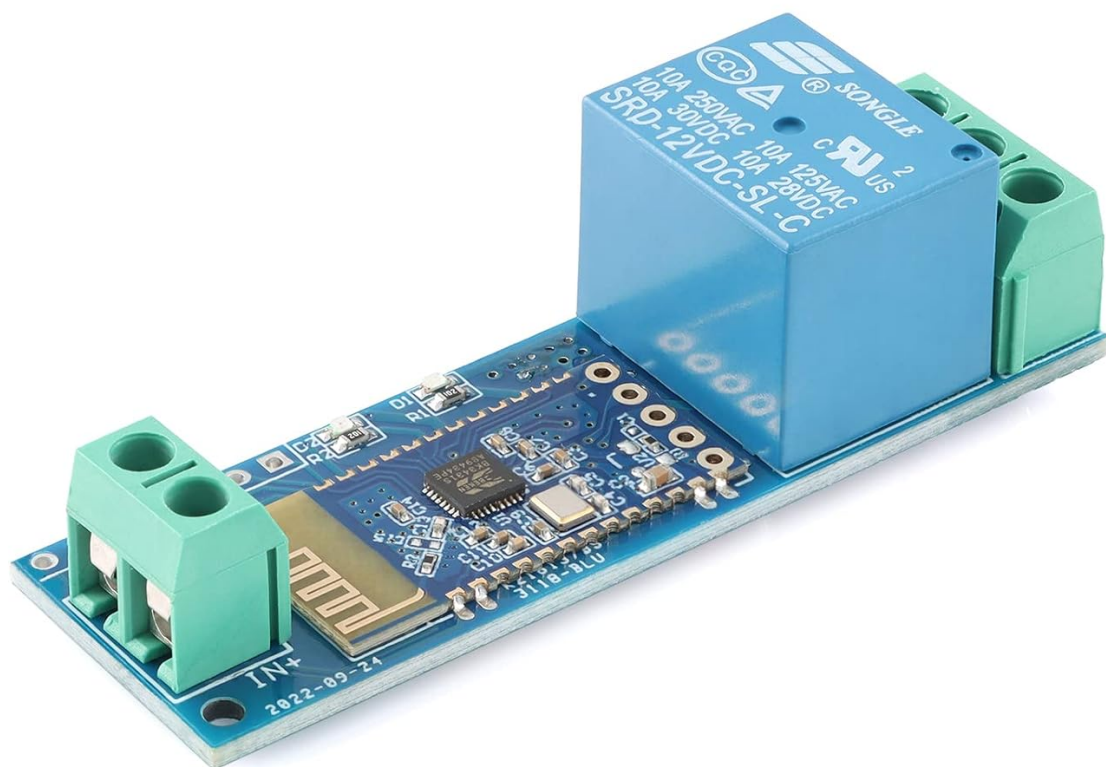


Figure 2: Angled view of the module, highlighting the relay and the Bluetooth communication section.

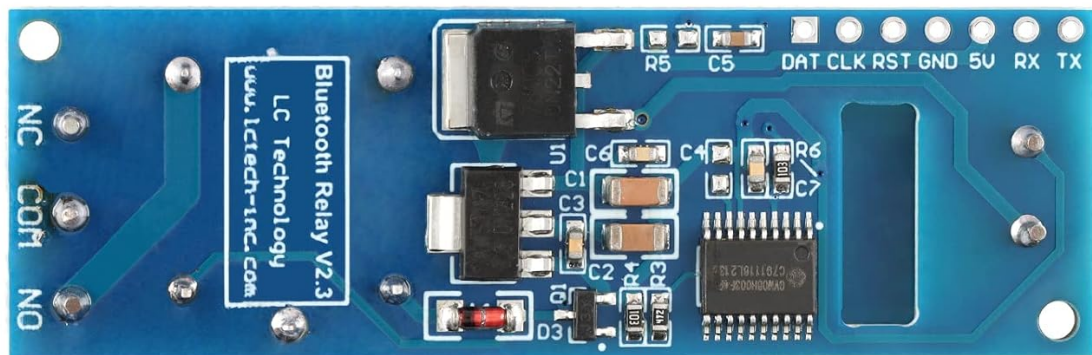


Figure 3: Bottom view of the Printed Circuit Board (PCB), showing various components and connection points.



Figure 4: Dimensional drawing indicating the module's length (62mm) and width (20mm).

3. SETUP INSTRUCTIONS

3.1 Power Supply Connection

Connect the module to a DC 12V power source as follows:

- **IN+:** Connect the positive terminal of the DC 12V power supply.
- **IN-:** Connect the negative terminal of the DC 12V power supply.

Caution: Ensure the correct polarity to prevent damage to the module.

3.2 Relay Connections

The relay provides three terminals for connecting your load:

- **COM (Common):** This is the common terminal for the relay switch.
- **NO (Normally Open):** Before the relay is activated (closed), this terminal is open (suspended) from COM.

When the relay is activated, NO becomes shorted with COM.

- **NC (Normally Closed):** Before the relay is activated (closed), this terminal is shorted with COM. When the relay is activated, NC becomes open (suspended) from COM.

Choose the appropriate NO or NC connection based on your application's requirements (e.g., normally off or normally on behavior).

4. OPERATING INSTRUCTIONS

This module is currently designed to support Android systems only, not iOS.

4.1 Mobile Application Installation

After correctly connecting the module, install the "Bluetooth Smart Control" application on your Android phone. This app is typically available on Android app stores.

4.2 Bluetooth Pairing

1. Open the "Bluetooth Smart Control" app on your Android phone.
2. Search for available Bluetooth devices. The module may appear with a name such as "JDY-33-SPP" or similar.
3. Select the module and connect. The pairing password is **1234**.

4.3 Sending Control Commands

To control the relay, you will send specific hexadecimal serial port instructions via the app:

1. Within the "Bluetooth Smart Control" app interface, long-press the gray box to add a serial port instruction.
2. Input a name for the instruction (e.g., "Relay ON").
3. Enter the instruction content:
 - To **turn ON** the relay: A00101A2
 - To **turn OFF** the relay: A00100A1
4. Select the option to send the instruction in **hexadecimal form**.
5. Click the corresponding box in the app to send the instruction and control the relay's switch state.

Alternatively, you can download other general Bluetooth terminal applications from the Android App Store and configure them to send these hexadecimal instructions.

5. MAINTENANCE

5.1 General Care

To ensure the longevity and proper functioning of your JESSINIE Bluetooth Relay Module, follow these general maintenance guidelines:

- **Keep Dry:** Avoid exposing the module to moisture, water, or high humidity, which can damage electronic components.
- **Clean Gently:** If cleaning is necessary, use a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- **Temperature Control:** Operate and store the module within its specified operating temperature range (20

Degrees Celsius). Avoid extreme heat or cold.

- **Secure Connections:** Periodically check that all wire connections to the terminal blocks are secure and free from corrosion.
- **Avoid Physical Shock:** Protect the module from drops or impacts that could damage the PCB or components.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **Issue: Module cannot be found or paired by the mobile app.**
Solution:
 - a. Ensure the module is powered correctly (12V DC).
 - b. Verify Bluetooth is enabled on your Android phone.
 - c. Make sure the phone is within the 10m operating range of the module.
 - d. Confirm the pairing password is 1234.
 - e. Try restarting both the module (by cycling power) and the phone's Bluetooth.
- **Issue: Relay does not respond to commands from the app.**
Solution:
 - a. Check if the module is successfully paired and connected to the app. The Bluetooth status indicator on the module should confirm connection.
 - b. Verify that the hexadecimal commands (A00101A2 for ON, A00100A1 for OFF) are entered correctly and sent in hexadecimal format.
 - c. Ensure the relay's load connections (COM, NO, NC) are correct and the load itself is functional.
 - d. Check the relay indicator on the module; it should change state when a command is sent.
- **Issue: "Bluetooth Smart Control" app is difficult to use or not working as expected.**
Solution:
 - a. Ensure your Android operating system is up to date.
 - b. Consider trying an alternative general-purpose "Serial Bluetooth Terminal" app from the Android App Store. Many such apps allow you to configure custom hexadecimal macros for sending commands.
 - c. Refer to the app's specific instructions or support if available.
- **Issue: Module is not powering on.**
Solution:
 - a. Double-check the 12V DC power supply connection to IN+ and IN- for correct polarity and secure contact.
 - b. Test the power supply to ensure it is providing 12V DC.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Operating Voltage	DC 12V
Maximum DC Control Voltage	DC 30V
Maximum AC Control Voltage	AC 250V

Parameter	Value
Control Distance	10m (open environment)
Module Size	20mm x 62mm
Material	Plastic
Item Weight	0.02 Kilograms
Operating Temperature	20 Degrees Celsius
Bluetooth Pairing Password	1234
Supported OS	Android (iOS not supported)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This product is typically covered by a standard manufacturer's warranty against defects in materials and workmanship. Specific warranty terms and duration may vary depending on the retailer and region of purchase. Please retain your proof of purchase for warranty claims.

Extended warranty options, such as the "1 Year Extended Warranty by Onsitego," may be available for purchase separately from certain retailers. Please check with your seller for details on available protection plans.

8.2 Customer Support

For technical assistance, troubleshooting, or inquiries regarding your JESSINIE 12V Bluetooth Relay Module, please contact the retailer or the manufacturer, JESSINIE, directly. Refer to your purchase documentation for specific contact information.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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