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LoraTap RR502W-JL-V2-SLT

LoraTap WiFi Switch Module Pro with Power Meter Instruction Manual

Model: RR502W-JL-V2-SLT

Brand: LoraTap

1. PRODUCT OVERVIEW

The LoraTap WiFi Switch Module Pro is a smart device designed to integrate with your existing electrical system, offering remote control, energy monitoring, and voice control capabilities. It allows you to manage your lights or other appliances via the Smart Life application and is compatible with traditional wall switches.



Figure 1: LoraTap WiFi Switch Module Pro. This image displays the compact module with its wiring terminals and a pairing button, alongside icons representing its key features: energy consumption monitoring, voice control, remote control, and scheduling/timer functions.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation should only be performed by a qualified electrician or a person with a thorough understanding of electrical systems. Ensure power is disconnected at the circuit breaker before installation.
- **Voltage and Current:** Do not exceed the maximum load ratings of 250V, 5A, or 1150W for this module. Overloading can cause damage or fire.
- **Indoor Use Only:** This device is designed for indoor use in dry environments. Do not expose to moisture or extreme temperatures.
- **Wiring:** Follow all local electrical codes and wiring diagrams provided in this manual. Incorrect wiring can lead to electric shock or fire.
- **Children:** Keep the device and its components out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- LoraTap WiFi Switch Module Pro (RR502W-JL-V2-SLT)
- User Manual

4. SPECIFICATIONS

Feature	Specification
Model Number	RR502W-JL-V2-SLT
Brand	LoraTap
Operating Voltage	100-250V AC
Max Current	5A
Max Power	1150W (2300W for 250V, 5A)
Wireless Protocol	Wi-Fi 2.4GHz (IEEE 802.11 b/g/n)
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions	13.9 x 7.4 x 2.7 cm
Weight	120 grams
Certifications	CE, FCC

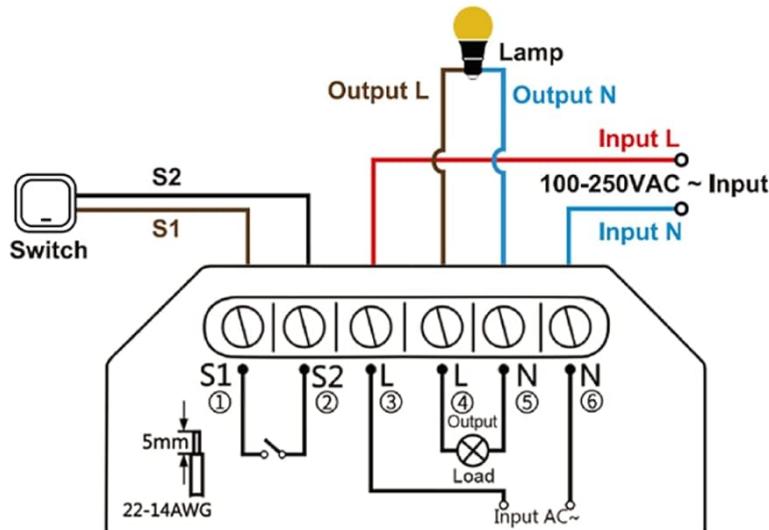
5. INSTALLATION AND SETUP

5.1 Wiring Instructions

WARNING: Ensure the main power supply is turned off at the circuit breaker before attempting any wiring. Incorrect wiring can cause electric shock or damage to the device.

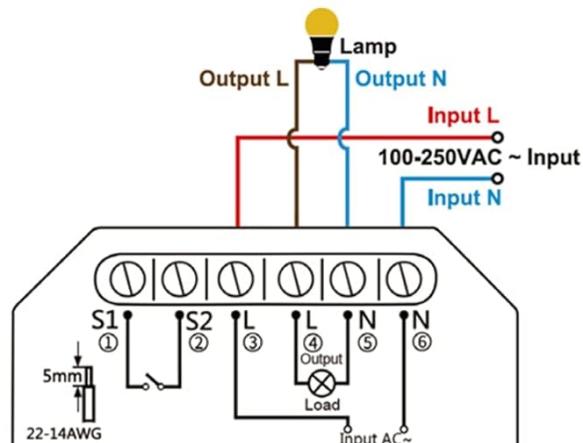
1. Turn off the power at the main circuit breaker.
2. Open the junction box or switch box where the module will be installed.
3. Connect the wires according to the appropriate wiring diagram below. The module supports various configurations, including single-pole switches and 3-way (two-way) switches.
4. Ensure all wire connections are secure.
5. Carefully place the module and wiring back into the junction box.
6. Restore power at the circuit breaker.

Retaining the original wall switch function



Wiring Diagram

No original wall switch



3-way switch

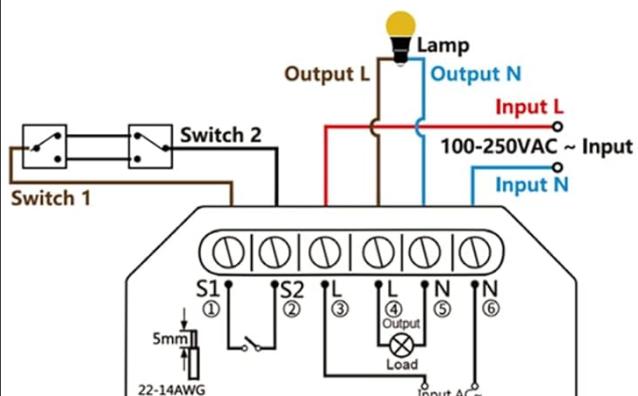


Figure 2: Detailed Wiring Diagrams. This image illustrates three common wiring scenarios: connecting the module without an existing wall switch, with a single-pole wall switch, and with a 3-way (two-way) switch setup. Pay close attention to the Input L, Input N, Output L, Output N, S1, and S2 terminals.

5.2 App Pairing (Smart Life)

1. Download the "Smart Life" app from the App Store (iOS) or Google Play Store (Android).
2. Register or log in to your Smart Life account.
3. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network. The module does not support 5GHz Wi-Fi directly. If you have a dual-band router, ensure you select the 2.4GHz network.
4. Open the Smart Life app, tap the "+" icon in the top right corner to add a device.
5. Select "Electrical" then "Switch (Wi-Fi)" or "Socket (Wi-Fi)" depending on the app's latest interface.
6. Press and hold the "Pairing Button" on the LoraTap module for approximately 5 seconds until the indicator light flashes rapidly.
7. In the app, confirm that the indicator light is flashing rapidly and follow the on-screen instructions to connect to your Wi-Fi network.
8. Once connected, you can rename the device and assign it to a room.

Figure 3: Module Integration and App Interface. This image shows the LoraTap module discreetly installed behind a traditional wall switch, alongside a smartphone screen demonstrating the Smart Life app's energy monitoring and scheduling capabilities.

6. OPERATING INSTRUCTIONS

6.1 Energy Monitoring

The LoraTap module features an integrated high-precision energy meter. You can view real-time and historical energy consumption data directly within the Smart Life application.

- Open the Smart Life app and select your LoraTap switch module.
- Navigate to the "Energy" or "Statistics" section within the device interface.
- Here you can view current power (W), voltage (V), current (mA), and total energy consumption (kWh) for the day, month, or year.



Figure 4: Energy Monitoring Interface. This image displays the Smart Life app's energy statistics screen, showing real-time power usage and historical consumption data presented in graphs and lists for daily and monthly periods.

6.2 Voice Control

The module is compatible with Amazon Alexa and Google Assistant for convenient voice control.

1. Ensure your LoraTap module is successfully paired with the Smart Life app.
2. Open the Amazon Alexa or Google Home app.
3. Enable the "Smart Life" skill/service and link your Smart Life account.
4. Discover devices. Your LoraTap module should appear.
5. You can now use voice commands such as:
 - "Alexa, turn on [Device Name]"
 - "Hey Google, turn off [Device Name]"

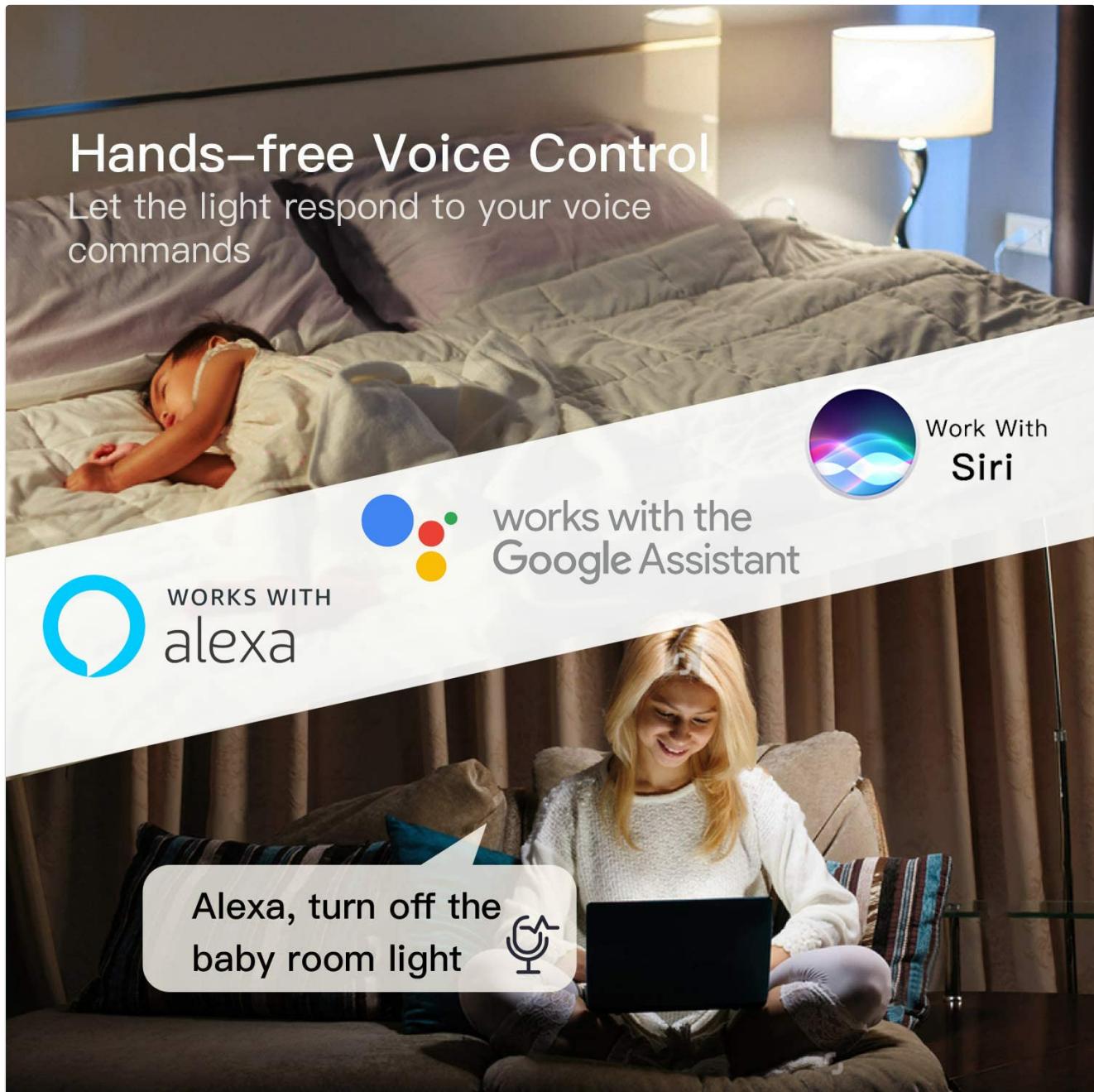


Figure 5: Voice Control Functionality. This image illustrates the use of voice commands to control connected devices, featuring compatibility with Amazon Alexa and Google Assistant.

6.3 Remote Control and Scheduling

Control your devices from anywhere and automate their operation using the Smart Life app.

- **Remote ON/OFF:** Tap the device icon in the Smart Life app to turn it on or off remotely.

- **Scheduling:** Set specific times for the device to turn on or off automatically.
 - Select your device in the app.
 - Tap "Schedule" or "Timer".
 - Add new schedules with desired times and actions (ON/OFF).
- **Timer Functions:** The module supports various timer functions including Countdown, Schedule, Random, Inch, and Circulate.
 - **Countdown:** Turn off after a set duration.
 - **Schedule:** Set daily or weekly on/off times.
 - **Random:** Turn on/off randomly within a time frame (e.g., for security when away).
 - **Inch:** Turn on for a brief period, then off automatically.
 - **Circulate:** Repeat on/off cycles.
- **Group Control:** Control multiple LoraTap modules simultaneously by creating groups in the Smart Life app.
- **Device Sharing:** Share control of your devices with family members through the app.

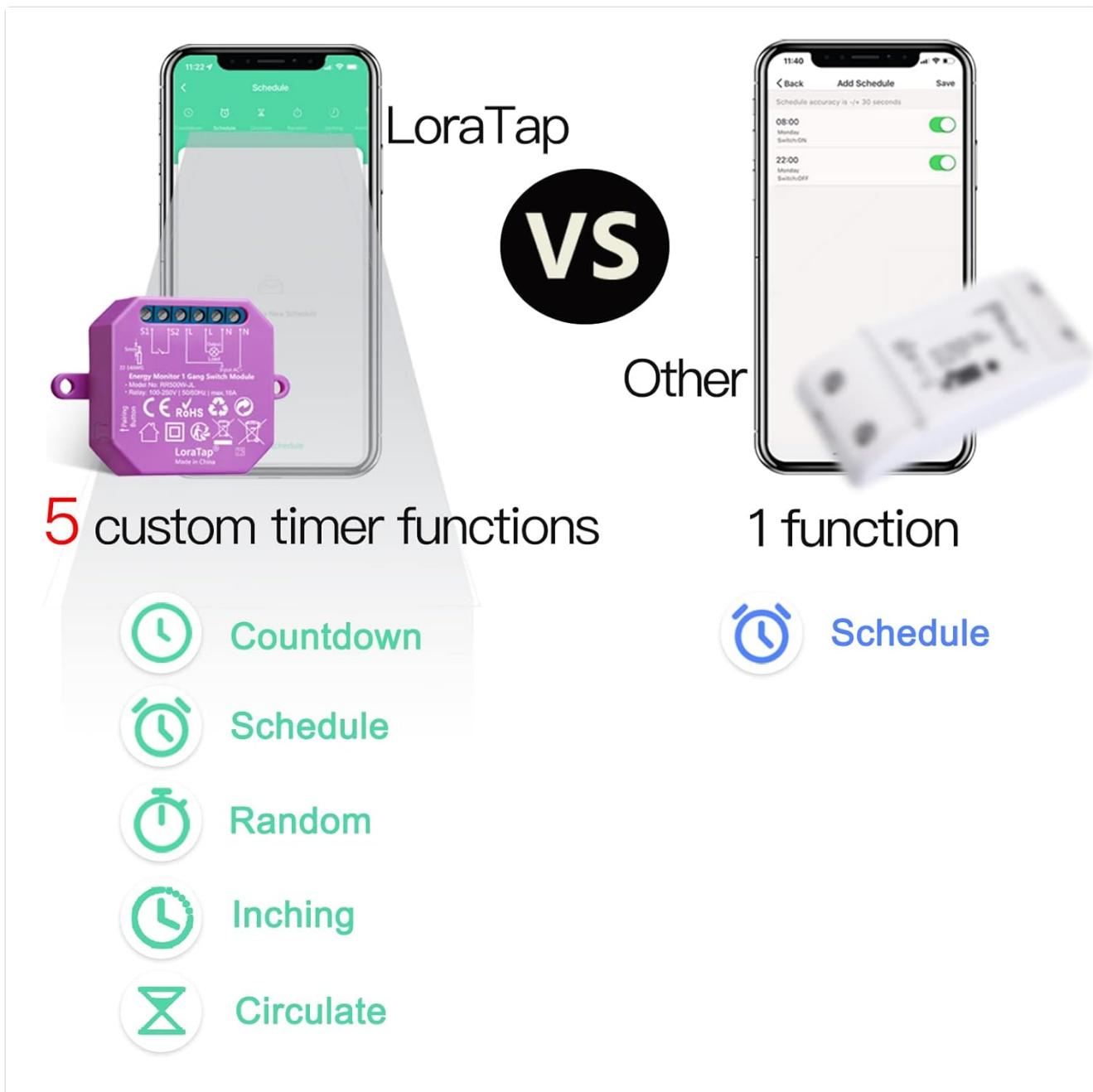


Figure 6: Advanced Timer Functions. This image highlights the five distinct timer functions available in the Smart Life app for the LoraTap module.

LoraTap module, offering greater automation flexibility compared to basic scheduling.

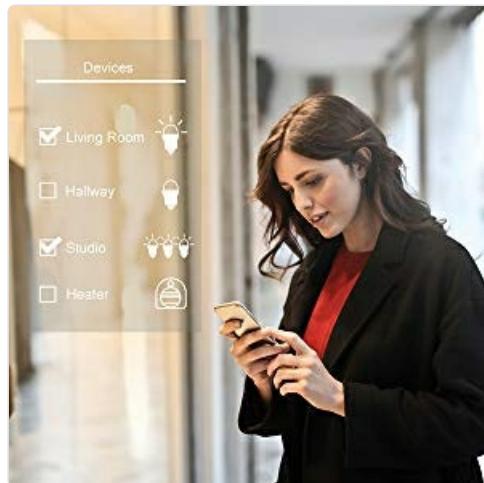


Figure 7: Remote Control via Smart Life App. This image depicts a user interacting with the Smart Life application on a smartphone to manage various smart devices in different rooms.

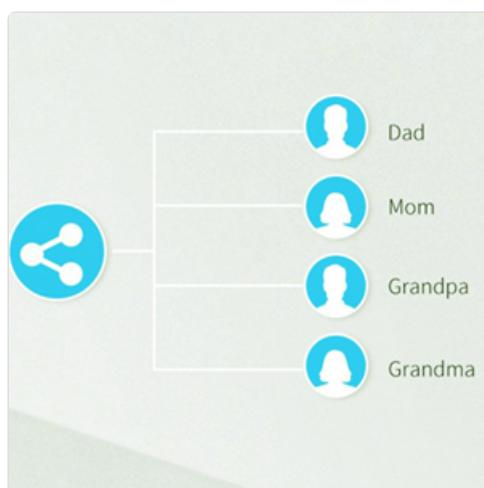


Figure 8: Device Sharing Feature. This graphic illustrates how control of the smart module can be shared among multiple family members through the Smart Life app.

6.4 Traditional Switch Compatibility

The LoraTap module is designed to work in parallel with your existing traditional wall switches, allowing both manual and smart control of your connected device.

- After installation, you can still use your physical wall switch to turn the light or appliance on/off.
- The module will synchronize its status with the physical switch, ensuring consistent control regardless of the method used.

WiFi Switch Works in Parallel with Your Wall Switch



Figure 9: Parallel Operation with Wall Switch. This image demonstrates how the LoraTap WiFi switch module functions seamlessly alongside a traditional wall switch, allowing both manual and smart control of a connected light fixture.

7. MAINTENANCE

- Cleaning:** Ensure the device is powered off before cleaning. Use a soft, dry cloth to wipe the surface. Do not use liquid cleaners or sprays.
- Firmware Updates:** The Smart Life app may prompt you for firmware updates. It is recommended to keep the device's firmware updated for optimal performance and security. Follow the in-app instructions for updates.
- Regular Checks:** Periodically check the wiring connections to ensure they remain secure.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on.	No power supply; incorrect wiring; circuit breaker tripped.	Check circuit breaker. Verify wiring according to diagrams. Ensure power is restored.

Problem	Possible Cause	Solution
Cannot pair with Smart Life app.	Incorrect Wi-Fi band (5GHz); weak Wi-Fi signal; device not in pairing mode.	Ensure phone is on 2.4GHz Wi-Fi. Move device closer to router. Press and hold pairing button until indicator flashes rapidly. Try resetting the module.
Remote control not working.	No internet connection; module offline; app issue.	Check home internet connection. Verify module's Wi-Fi status in app. Restart app or phone.
Voice control not responding.	Smart Life skill not linked; device name not recognized; internet issue.	Ensure Smart Life skill is enabled and linked in Alexa/Google Home app. Use the exact device name. Check internet connection.
Energy monitoring data is incorrect or missing.	Incorrect wiring; device malfunction.	Verify wiring, especially load connections. Contact support if issue persists.

Resetting the Module

To reset the module to factory settings and enter pairing mode, press and hold the pairing button for approximately 5-10 seconds until the indicator light flashes rapidly.

9. WARRANTY AND SUPPORT

Warranty: This LoraTap product comes with a 2-year warranty from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

Customer Support: For technical assistance, troubleshooting, or warranty inquiries, please contact LoraTap customer support through their official website or the retailer where the product was purchased. Provide your model number (RR502W-JL-V2-SLT) and a detailed description of the issue.

Online Resources: For additional information, FAQs, and updated guides, visit the official LoraTap support page: www.loratap.com/support (Example link, replace if actual link is known).