

AVATTO CSM16-RF-1

AVATTO Wi-Fi Smart Curtain Switch Module CSM16-RF-1 User Manual

Model: CSM16-RF-1

1. INTRODUCTION

The AVATTO CSM16-RF-1 is a compact Wi-Fi Smart Curtain Switch Module designed to transform traditional curtain switches into smart ones. It enables intelligent control of roller blinds, electric shutters, and other motorized curtains through Wi-Fi and RF433 signals. This module integrates seamlessly with popular smart home platforms, offering convenient remote and voice control options.

AVATTO

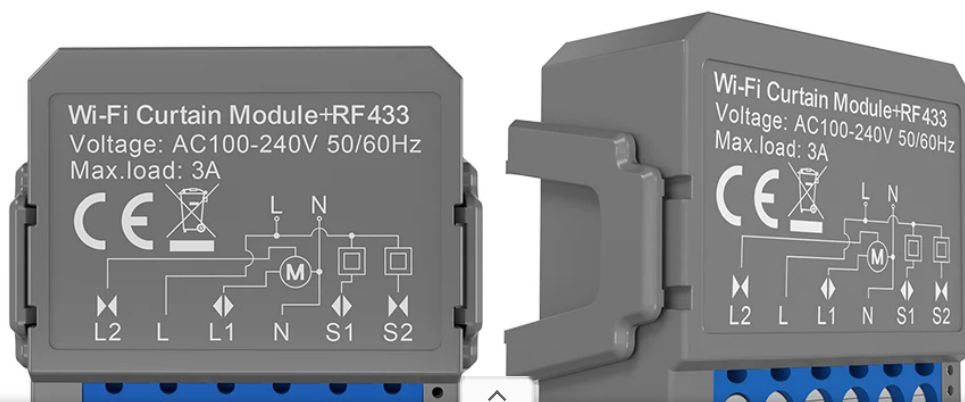




Figure 1: AVATTO Wi-Fi Smart Curtain Switch Module (CSM16-RF-1)

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2. SPECIFICATIONS



Product Type: 1/2 Gang WIFI Curtain Module

Protocol: WIFI IEEE 802.11b/g/n

Voltage: AC100-240V 50/60Hz Max. load 3A

Operation Range: <100m

Operation Frequency : 2.412GHz-2.484GHz

Dimension: (WxDxH) 39x39x19.4 mm

Radio Frequency: 433Mhz

IP Rating : IP20



Operation temp.: -10°C + 40°C

Certificates: CE ROHS

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Figure 2: Module Dimensions

Table 1: Product Parameters

Parameter	Value
Model Number	CSM16-RF-1
Brand Name	AVATTO
Product Type	Wi-Fi Curtain Module (1/2 Gang)
Voltage	AC100-240V, 50/60Hz
Max Load	3A
Protocol	WIFI IEEE 802.11b/g/n
Operation Range	<100m
Operation Frequency	2.412GHz-2.484GHz
Radio Frequency	433Mhz
Dimension (WxDxH)	39mm x 39mm x 19.4mm
IP Rating	IP20
Operation Temperature	-10°C to +40°C
Certifications	CE, RoHS
APP Support	Smart Life APP, Tuya APP
Voice Control	Amazon Alexa, Google Home, Alice

3. SETUP

3.1 Safety Precautions

- Ensure power is OFF at the circuit breaker before installation.
- Installation should be performed by a qualified electrician.
- Do not exceed the maximum load rating of 3A.
- This module is designed for indoor use only (IP20 rating).

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3.2 Wiring Diagram

Follow the wiring diagram carefully to connect the module to your curtain motor and existing switch.

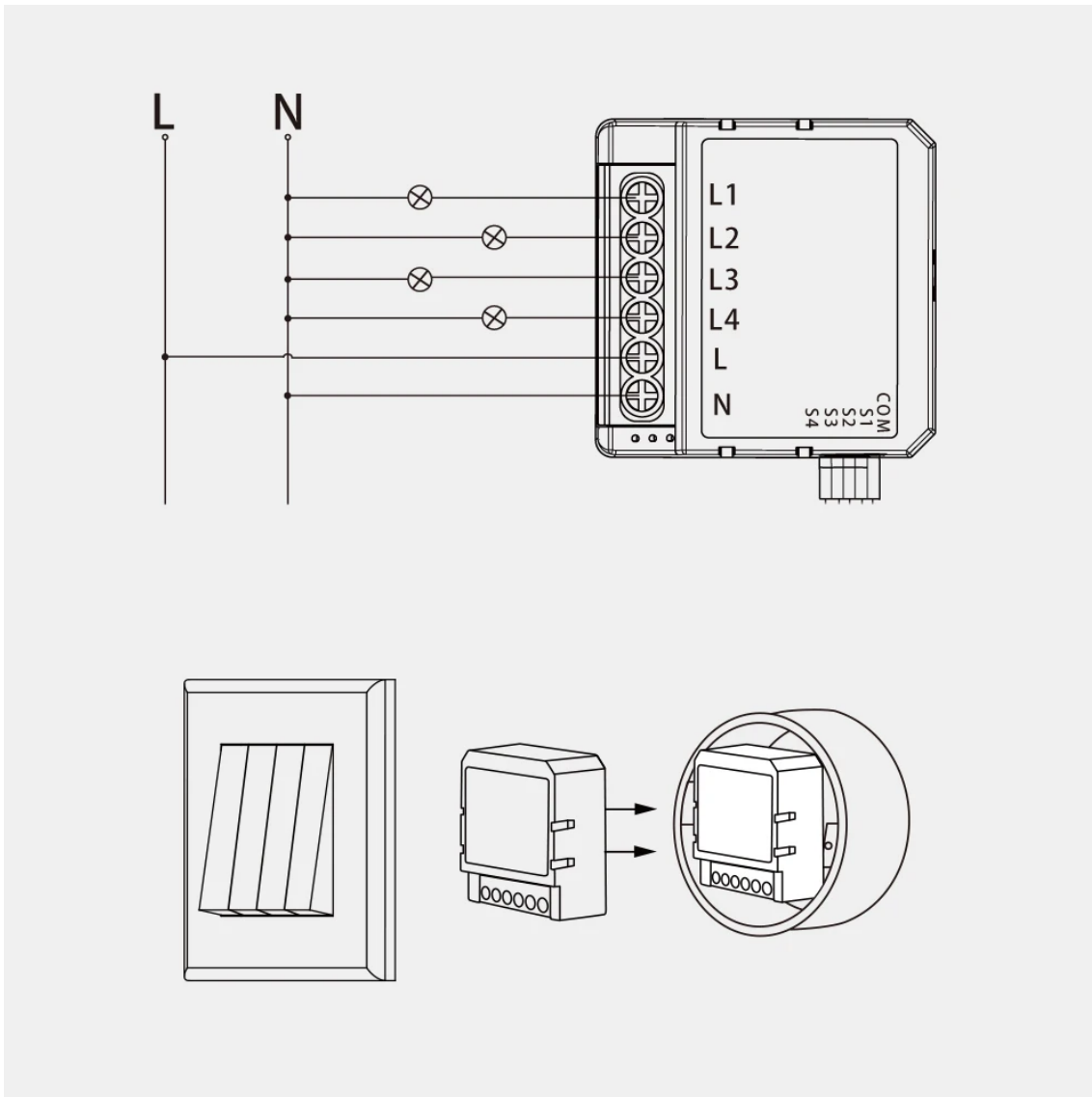


Figure 3: Wiring Diagram

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Wiring Instructions:

1. Connect the Live (L) wire to the L terminal on the module.
2. Connect the Neutral (N) wire to the N terminal on the module.
3. Connect the motor's Live (M) wire to the M terminal on the module.
4. Connect the switch input wires (S1, S2) to your existing curtain switch.
5. Ensure all connections are secure.

3.3 Installation into Switch Box

The module's mini size allows it to be installed behind most standard wall switches.

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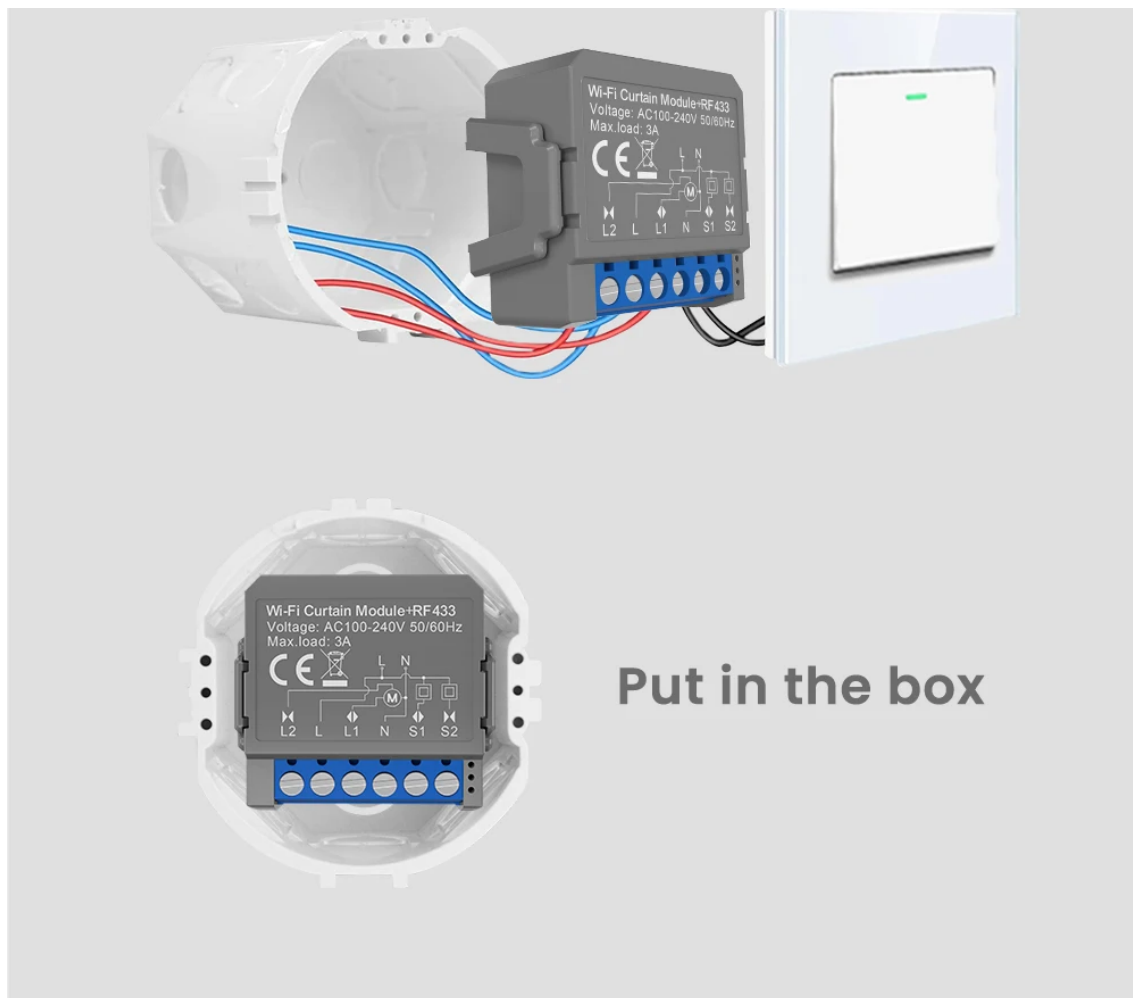


Figure 4: Module Installation in Switch Box

Installation Steps:

1. After wiring, carefully place the module into the switch box behind your existing curtain switch.
2. Ensure there is enough space and no wires are pinched.
3. Secure the wall switch back into place.
4. Restore power at the circuit breaker.

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3.4 App Pairing

To enable smart control, you need to pair the module with the Smart Life or Tuya Smart app.

1. Download the 'Smart Life' or 'Tuya Smart' app from your smartphone's app store.
2. Register or log in to your account.
3. Put the module into pairing mode (usually by pressing the physical switch multiple times or holding it down, refer to the app's instructions for specific pairing methods).
4. In the app, tap '+' to add a new device and follow the on-screen instructions to connect the module to your Wi-Fi network.

4. OPERATING INSTRUCTIONS

4.1 APP Remote Control

Control your curtains from anywhere using the Smart Life or Tuya Smart app.

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Figure 5: APP Remote Control Overview

- Open the app and select your curtain module.
- Use the virtual buttons to open, close, or pause your curtains.

4.2 Voice Control

Integrate with Amazon Alexa, Google Home, or Alice for hands-free control.

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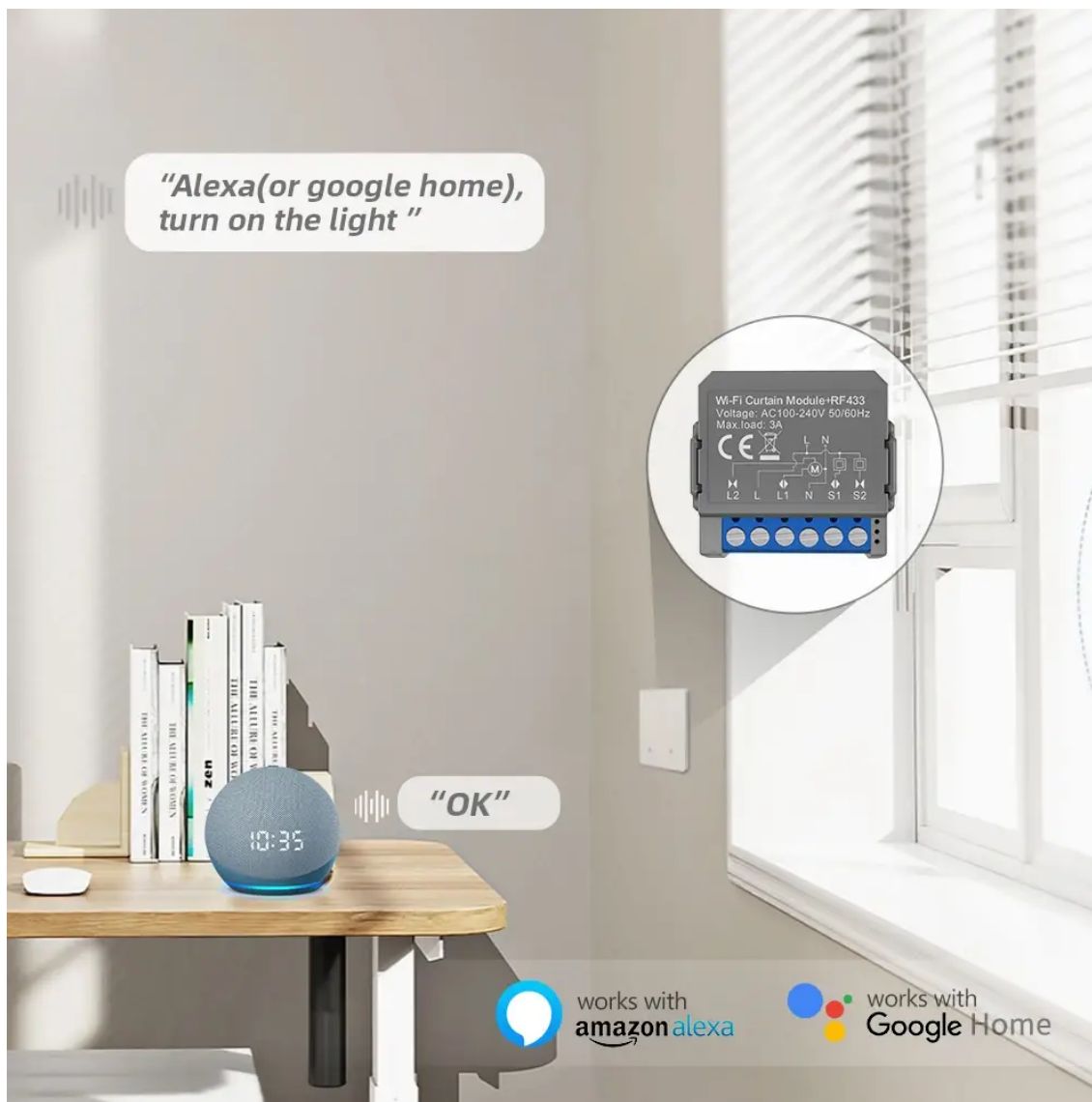


Figure 6: Hand-Free Voice Control

Voice Commands Examples:

- "Alexa, open the curtain."
- "Hey Google, close the blinds."
- "Alice, set curtain to 50%."

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4.3 RF Remote Control

The module supports an additional RF433 remote control for convenient local operation.



Figure 7: RF Remote Control

Pairing RF Remote:

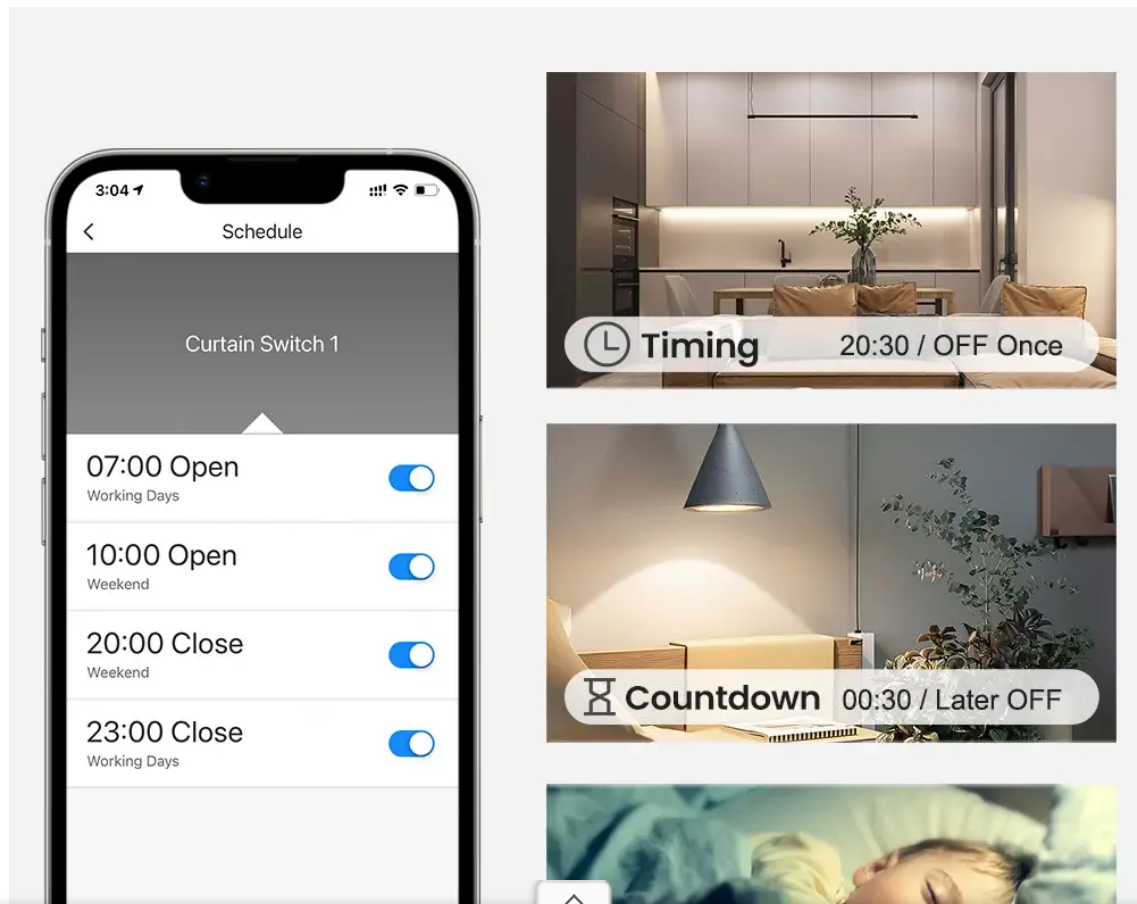
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1. Refer to the specific instructions provided with your RF433 remote control for pairing with the module.
2. Typically involves a button press sequence on the module or within the app to enter pairing mode, then activating the remote.

4.4 Timing, Countdown, and Schedule Functions

Automate your curtains to open or close at specific times or after a set duration.



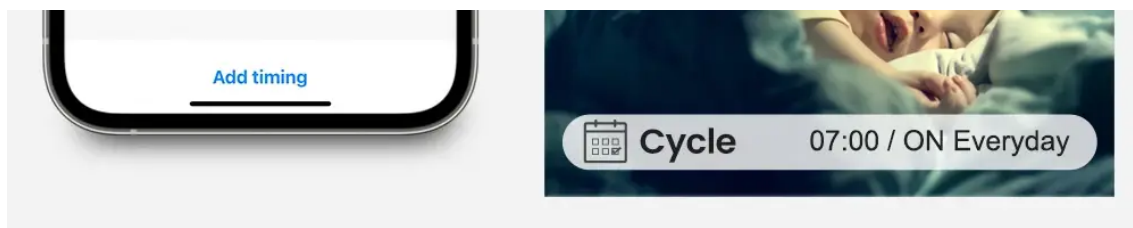


Figure 8: Timing/Countdown/Schedule Setup

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- In the app, navigate to the module's settings.
- Set up daily, weekly, or one-time schedules for opening/closing.
- Use the countdown feature for temporary automation.

4.5 Curtain Open Percentage Control & Accurate Calibration

Precisely control how much your curtains open or close.

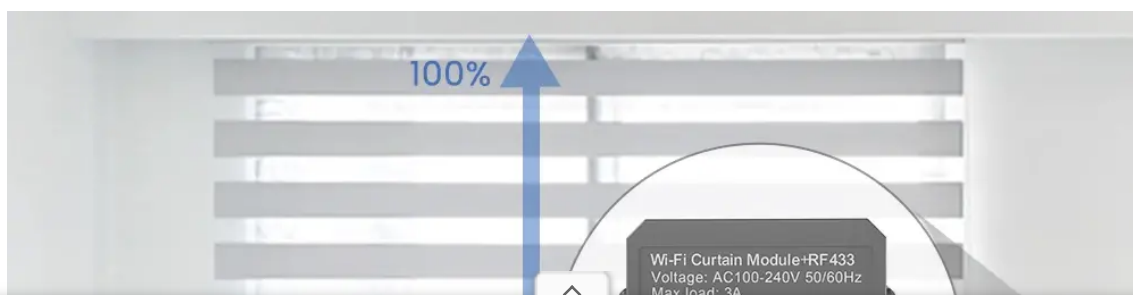




Figure 9: Percentage Control & Calibration

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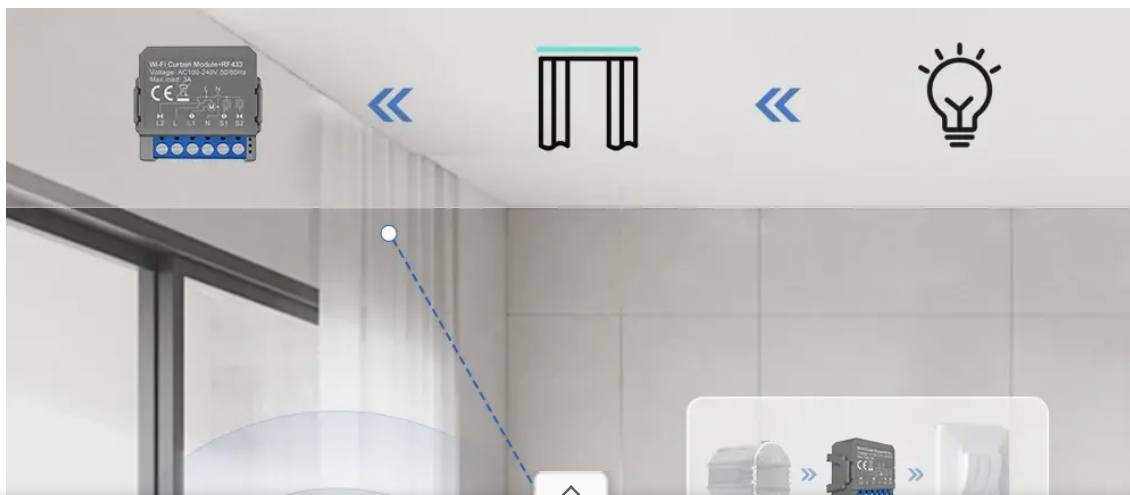
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- Use the slider in the app to set the desired open percentage (e.g., 50%).
- Perform calibration within the app settings to ensure accurate positioning of your curtains.

4.6 Linkage Function (Smart Automation)

Create smart scenes and automations by linking the curtain module with other smart devices.



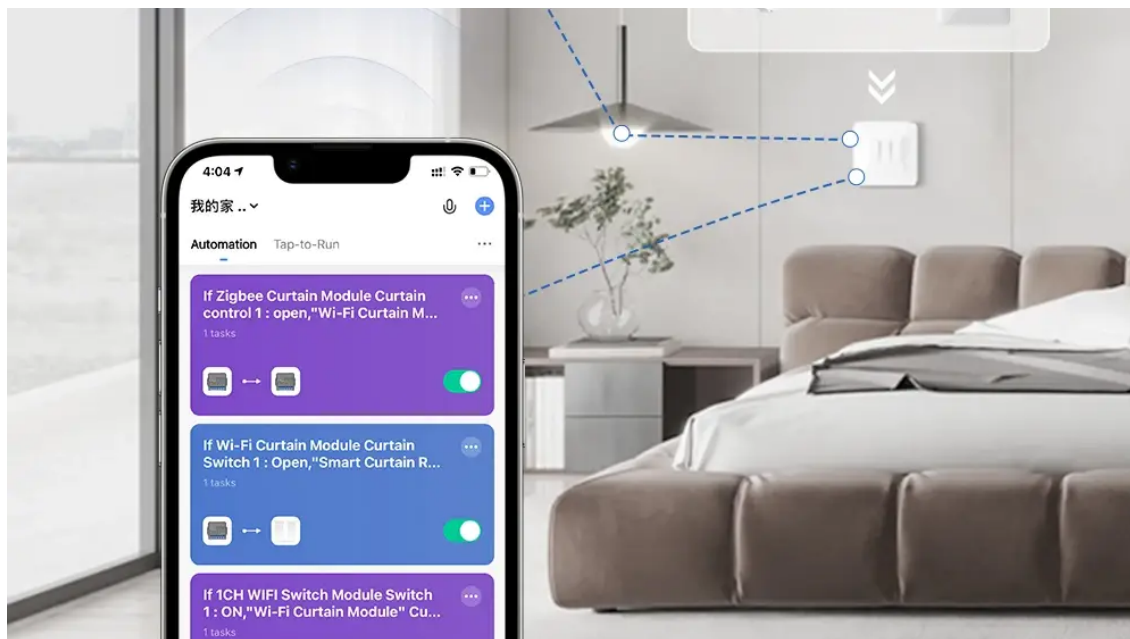


Figure 10: Linkage Function Setup

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- In the app, go to 'Smart' or 'Automation' section.
- Set conditions (e.g., 'If a sensor detects motion, 'Then' open curtains).
- Combine actions with other smart devices for a fully automated home.

5. MAINTENANCE

- Keep the module dry and clean. Avoid exposure to moisture or extreme temperatures.
- Do not attempt to disassemble or repair the module yourself. This will void the warranty.
- Periodically check for firmware updates in the Smart Life/Tuya Smart app to ensure optimal performance and security.
- Ensure your Wi-Fi network is stable for consistent operation.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Module not responding	No power, Wi-Fi disconnected, module malfunction.	Check power supply. Verify Wi-Fi connection in app. Restart module by cycling power.
Cannot pair with app	Incorrect pairing mode, weak Wi-Fi signal, wrong Wi-Fi band (only 2.4GHz supported).	Ensure module is in pairing mode. Move closer to router. Confirm 2.4GHz Wi-Fi. Try resetting the module.
Voice control not working	Incorrect linking with voice assistant, device name mismatch, internet issue.	Relink Smart Life/Tuya app with Alexa/Google Home. Ensure device name is consistent. Check internet connection.



Problem	Possible Cause	Solution
RF remote not working	Remote not paired, battery low in remote, interference.	Pair the RF remote with the module. Replace remote battery. Check for sources of RF interference.
Curtains not moving to correct percentage	Calibration issue.	Perform the curtain calibration function within the app.

7. USER TIPS

- **Wi-Fi Stability:** For optimal performance, ensure your Wi-Fi router is within a reasonable range of the module and provides a stable 2.4GHz signal.
- **Device Naming:** Use simple and distinct names for your curtain module in the app (e.g., "Living Room Curtains") to make voice commands more effective.
- **Automation Ideas:** Experiment with linkage functions. For example, set curtains to close automatically at sunset, or open slightly when your alarm goes off.
- **RF Remote Backup:** Keep an RF remote handy for quick control without needing your phone or voice assistant, especially useful for guests or in case of internet outages.
- **Regular Checks:** Periodically check the physical connections of the module to ensure they remain secure, especially after initial installation.

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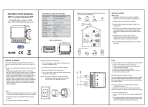

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8. WARRANTY AND SUPPORT

This AVATTO product comes with a 1-year warranty from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact the AVATTO Intelligent Store directly through the platform where you purchased the product. Provide your model number (CSM16-RF-1) and a detailed description of the issue to expedite support.

Related Documents - CSM16-RF-1

	<p>WIFI Curtain Module+RF: Installation, Operation, and App Guide</p> <p>Comprehensive guide for the AVATTO WIFI Curtain Module+RF, covering technical specifications, installation, manual override, wiring, app user manual, and FAQ. Control your curtains remotely via Wi-Fi and voice assistants.</p>
	<p>Avatto N-ZCSM01-1 TUYA ZigBee Intelligent Roller Shutter Controller User Manual</p> <p>Comprehensive user manual for the Avatto N-ZCSM01-1 TUYA ZigBee intelligent roller shutter controller. Covers technical specifications, installation, setup, app usage, troubleshooting, and warranty information. Control your roller shutters remotely via the Tuya Smart app or voice assistants like Google Assistant and Amazon Alexa.</p>

WIFI Curtain Switch**User Guide
UK**

*Working Voltage: AC110-240V(50/60Hz)
*Nominal Load Power: 400W
*Maximum Load Current: 2A
*Maximum peak power: 800W
*Maximal communication distance:
*Wireless frequency: 2.4GHz
*Wireless Range: 30 Meters(Indoor)
*Switch Protocol: ZigBee
*Material: ABS flame-retardant

[Avatto N-CS10 WIFI Curtain Switch User Guide](#)

User guide for the Avatto N-CS10 WIFI Curtain Switch, detailing specifications, wiring, installation, app control via Smart Life, scheduling, device sharing, and integration with Amazon Alexa and Google Home.

