

SAMOTECH SM308-2CH

SAMOTECH SM308-2CH 2-Gang Zigbee Retractable Switch Module User Manual

Model: SM308-2CH | Brand: SAMOTECH

1. INTRODUCTION

The SAMOTECH SM308-2CH is a compact and powerful 2-gang Zigbee retractable switch module designed to integrate seamlessly into your smart home ecosystem. Based on the latest Zigbee 3.0 protocol, this module allows you to control two separate lighting circuits or electrical loads, offering advanced features such as active power and energy measurement. It is fully compatible with popular Zigbee gateways like Philips Hue, Home Assistant, HomeKit, SmartThings, and Hubitat, providing flexible control options for your connected devices.

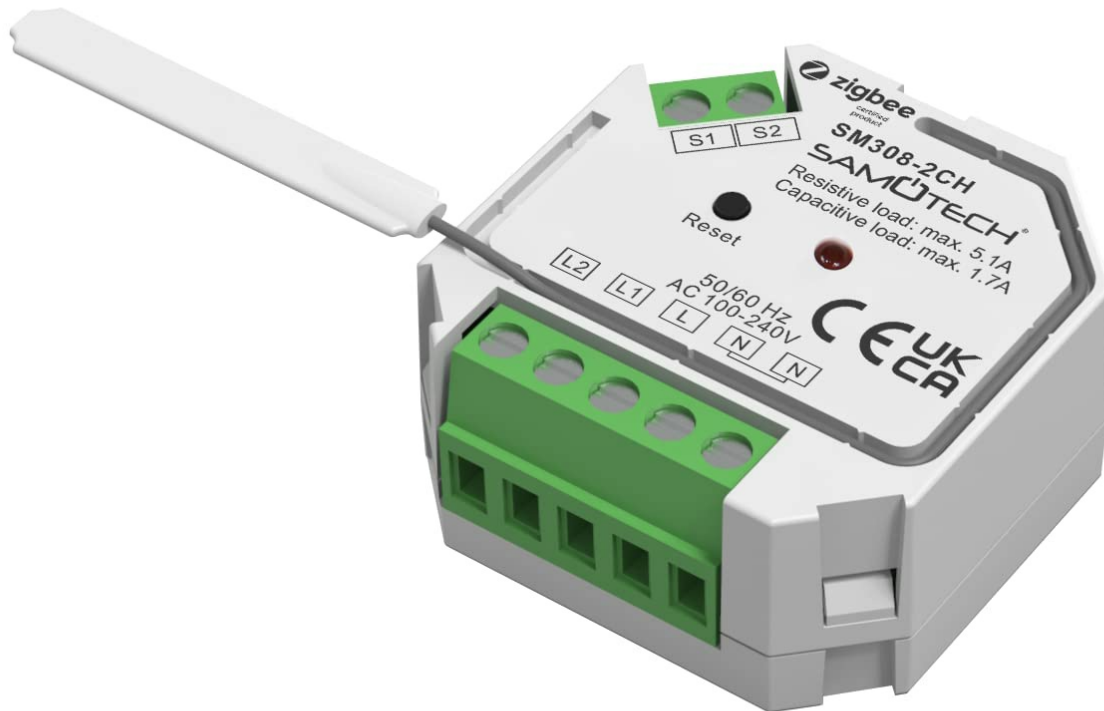


Figure 1: SAMOTECH SM308-2CH 2-Gang Zigbee Retractable Switch Module

2. PRODUCT FEATURES

- **Zigbee 3.0 Protocol:** Utilizes the latest Zigbee 3.0 standard for reliable and secure communication.
- **Dual Channel Output:** Controls two independent circuits with a maximum load of 5.1A per channel.
- **Wide Compatibility:** Fully compatible with Philips Hue, Home Assistant, HomeKit, SmartThings, Hubitat, and other Zigbee 3.0 gateways.
- **Load Support:** Supports both resistive and capacitive loads.
- **Touchlink Commissioning:** Supports Touchlink for easy pairing.
- **Self-Forming Network:** Capable of forming a Zigbee network without a coordinator and adding other devices.
- **Power & Energy Measurement:** Provides active power and energy consumption data.
- **Find and Bind Mode:** Supports linking with Zigbee remote controls.
- **Universal Switch Control:** Can be controlled by a universal single-wire push switch, with each channel controllable separately.

3. SAFETY INFORMATION

Please read this manual carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other injuries. Always consult a qualified electrician for installation if you are unsure.

- **Power Disconnection:** Ensure the main power supply is turned OFF at the circuit breaker before any installation or wiring work.
- **Voltage Compatibility:** Verify that the module's operating voltage (AC 100-240V, 50/60Hz) matches your

electrical system.

- **Load Limits:** Do not exceed the maximum load ratings (Resistive: max. 5.1A/CH; Capacitive: max. 1.7A/CH) to prevent overheating and damage.
- **Indoor Use Only:** This device is designed for indoor use in dry environments. Avoid exposure to moisture or extreme temperatures.
- **Proper Wiring:** Follow the wiring diagrams precisely. Incorrect wiring can cause malfunction or safety hazards.
- **Ventilation:** Ensure adequate ventilation around the module, especially if installed in confined spaces.

4. PACKAGE CONTENTS

- 1 x SAMOTECH SM308-2CH 2-Gang Zigbee Retractable Switch Module
- 1 x User Manual (this document)

5. SPECIFICATIONS

Attribute	Value
Model Number	SM308-2CH
Brand	SAMOTECH
Dimensions	5.7 x 5.6 x 3.7 cm
Weight	50 grams
Operating Voltage	AC 100-240V, 50/60Hz
Resistive Load (Max)	5.1A/CH
Capacitive Load (Max)	1.7A/CH
Contact Type	Normally Open
Operation Mode	ON-OFF-ON
Material	Plastic



Figure 3: Dimensions of SM308-2CH Module

6. INSTALLATION AND SETUP

6.1 Wiring Diagram

WARNING: Ensure power is OFF at the circuit breaker before proceeding with wiring. If you are not comfortable with electrical wiring, please consult a qualified electrician.

The SM308-2CH module has terminals for Line (L), Neutral (N), and two switch inputs (S1, S2) and two load outputs (L1, L2). Connect according to the diagram below:



Figure 2: Typical Wiring Diagram for SM308-2CH

L: Live input from mains.

N: Neutral input from mains.

L1: Switched Live output for Load 1.

L2: Switched Live output for Load 2.

S1: Input for external switch 1 (connected to Live for control).

S2: Input for external switch 2 (connected to Live for control).

6.2 Pairing with a Zigbee Gateway (e.g., Philips Hue)

Once the module is wired and power is restored, you can pair it with your Zigbee gateway:

1. Ensure your Zigbee gateway (e.g., Philips Hue Bridge) is powered on and connected to your network.
2. Open your Zigbee gateway's application (e.g., Philips Hue app).
3. Navigate to the "Add Device" or "Add Light" section within the app.
4. On the SM308-2CH module, locate the "Reset" button. Press the "Reset" button **four times** quickly. The module's indicator light should start blinking, indicating it is in pairing mode.
5. The app should detect the new device. For the SM308-2CH, it will typically appear as two separate "lights" or switches, one for each channel.
6. Follow the on-screen prompts in your app to complete the pairing process and assign names to your new switches.

Note: For other Zigbee gateways (Home Assistant, SmartThings, Hubitat), the pairing process will be similar. Refer to your specific gateway's documentation for detailed instructions on adding new Zigbee devices.

6.3 Touchlink Commissioning

The module supports Touchlink for direct pairing with a Zigbee remote control without a gateway. To initiate Touchlink:

1. Bring the Zigbee remote control within 10 cm of the SM308-2CH module.
2. Initiate Touchlink on your remote control (refer to the remote's manual for specific instructions).
3. The module and remote should pair directly, allowing the remote to control the module's outputs.

7. OPERATING INSTRUCTIONS

Once installed and paired, the SAMOTECH SM308-2CH module can be operated in several ways:

- **Via Zigbee Gateway App:** Use your smart home app (e.g., Philips Hue, Home Assistant) to turn the connected lights or appliances ON/OFF for each channel independently.
- **Voice Control:** If integrated with a voice assistant (e.g., Siri via HomeKit, Google Assistant, Alexa), you can use voice commands to control the connected devices.
- **External Wall Switch:** If wired to traditional wall switches (S1, S2 terminals), you can use these physical switches to toggle the connected loads ON/OFF.
- **Zigbee Remote Control:** If paired via Touchlink or the gateway, a Zigbee remote can directly control the module.

7.1 Power and Energy Monitoring

The SM308-2CH module provides active power and energy consumption data. This information can typically be viewed within your Zigbee gateway's application, allowing you to monitor the energy usage of the connected devices.

8. MAINTENANCE

The SAMOTECH SM308-2CH module requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the module. Do not use liquid cleaners or aerosols.
- **Environment:** Ensure the module is installed in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture.
- **Firmware Updates:** Periodically check your Zigbee gateway's application for any available firmware updates for the module. Updates can improve performance and add new features.
- **Regular Checks:** Occasionally inspect the wiring connections to ensure they are secure.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Module not pairing with gateway.	<ul style="list-style-type: none">◦ Not in pairing mode.◦ Too far from gateway.◦ Interference.◦ Gateway full or incompatible.	<ul style="list-style-type: none">◦ Press reset button 4 times quickly.◦ Move module closer to gateway during pairing.◦ Check for other Zigbee devices or Wi-Fi interference.◦ Ensure gateway supports Zigbee 3.0 and has available device slots.

Problem	Possible Cause	Solution
Connected light/appliance not responding.	<ul style="list-style-type: none">◦ Incorrect wiring.◦ Overload.◦ Module malfunction.	<ul style="list-style-type: none">◦ Turn off power and re-check wiring against diagram.◦ Verify load does not exceed max ratings.◦ Perform a factory reset (press reset button for 10 seconds) and re-pair.
Module frequently disconnects.	<ul style="list-style-type: none">◦ Weak Zigbee signal.◦ Network congestion.	<ul style="list-style-type: none">◦ Add more Zigbee router devices to strengthen the mesh network.◦ Ensure gateway is centrally located.

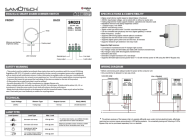
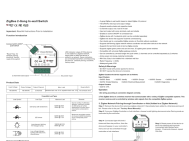
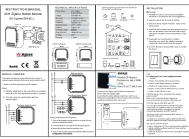
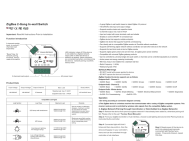
10. WARRANTY AND SUPPORT

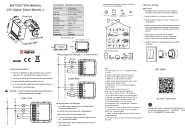
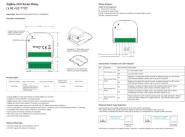
SAMOTECH products are designed for reliability and performance. For warranty information and technical support, please refer to the official SAMOTECH website or contact your retailer. Keep your proof of purchase for warranty claims.

For further assistance, you may visit the [SAMOTECH store on Amazon](#) or contact their customer service directly.

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Related Documents - SM308-2CH

	<p>Samotech SM323(v2) Smart Zigbee Dimmer Switch Installation and Operation Guide</p> <p>Comprehensive guide for the Samotech SM323(v2) Smart Zigbee Dimmer Switch, covering specifications, wiring, pairing, brightness settings, and compatible light sources. Learn how to install and operate your Zigbee dimmer for optimal performance.</p>
	<p>ZigBee 2-Gang In-wall Switch Installation and Operation Guide</p> <p>Comprehensive guide for the Sunricher ZigBee 2-Gang In-wall Switch (SR-ZG9101SAC-HP-Switch-2CH), covering installation, pairing, operation, and troubleshooting for smart home integration.</p>
	<p>2CH Zigbee Switch Module QS-Zigbee-S04-2C-L Instruction Manual</p> <p>Instruction manual for the 2CH Zigbee Switch Module QS-Zigbee-S04-2C-L, covering technical specifications, installation, wiring diagrams, app control, and FAQ. Learn how to integrate your smart home devices.</p>
	<p>Zigbee 2-Gang In-wall Switch: Installation and Operation Guide</p> <p>Comprehensive guide for the Zigbee 2-Gang In-wall Switch, detailing installation, wiring, Zigbee network pairing, TouchLink, Find and Bind, and other operational features. Includes specifications, safety warnings, and load compatibility information for smart home automation.</p>

	<p>2CH Zigbee Switch Module-L Instruction Manual - Smart Home Automation</p> <p>Comprehensive instruction manual for the 2CH Zigbee Switch Module-L, detailing technical specifications, installation, function introduction, wiring diagrams, FAQ, and app control for smart home automation.</p>
	<p>ZigBee 2CH Smart Relay SR-ZG9041A-2R User Manual Smart Home Control</p> <p>Comprehensive user manual for the ZigBee 2CH Smart Relay (SR-ZG9041A-2R). Learn about installation, wiring, operation, Zigbee connectivity, safety warnings, and technical specifications for smart home automation.</p>