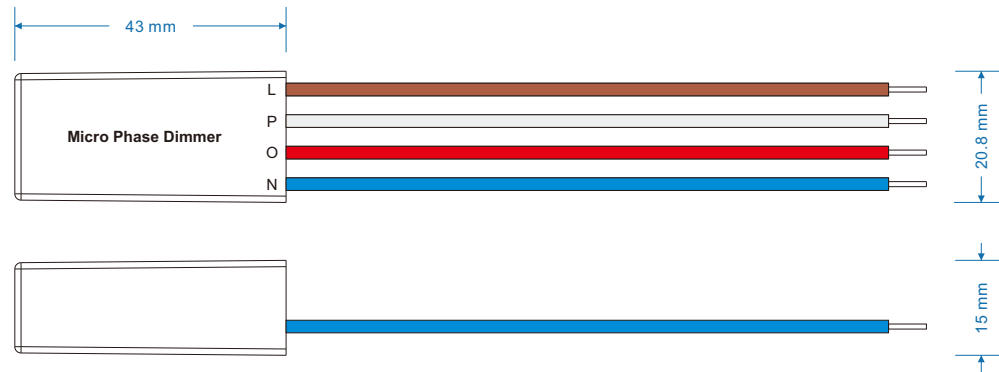


Matter Over Thread + Zigbee Dual Tech Micro Smart Dimmer



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Input Voltage	Output Voltage	Output Current	Size(LxWxH)
100-240VAC	100-240VAC	0.1-0.65A	43x20.8x15mm

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	Dimmable LED lamps	150W @ 230V 75W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
	Dimmable LED drivers	150W @ 230V 75W @ 110V	Maximum permitted number of drivers is 150W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	150W @ 230V 75W @ 110V	
	Low voltage halogen lighting with electronic transformers	150W @ 230V 75W @ 110V	

- Matter + Zigbee dual tech, Matter certified lighting devices over thread
- 100-240VAC Wide Input and Output Voltage
- Supports resistive loads, capacitive loads or inductive loads
- 1 Channel Output, Up to 150W
- Trailing edge dimming
- Enables to control ON/OFF and light intensity of connected light source
- App control + Touchlink remote control + Green Power kinetic switch control
- App control through Matter (e.g. Apple Home, Amazon Alexa, Google Home)
- Fully compatible with universal Matter ecosystems from different manufacturers
- Voice control through Apple Siri, Google Assistant, Amazon Alexa
- Over load protection and over temperature protection
- Supports power metering
- Ultra Mini Size

Main Features:

- Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- Advanced microprocessor control
- Implemented algorithm of smart light source detection
- Active power and energy metering functionality
- Soft start function
- Innovative minimum dimming level and startup brightness setting function
- Works with various types of switches – momentary, toggle, three-way, etc.
- Active element: semiconductor electronic switch
- To be installed in wall switch boxes of dimensions allowing for installation, conforming to provisions of applicable regulations
- The Bypass is an extension unit

As a dimmer it operates under the following loads:

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps and dimmable LED bulbs (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Dimmable LED bulbs
- Dimmable compact fluorescent CFL tube lamps
- Supported dimmable light sources (power factor > 0.5) with minimal power of 3VA using the Bypass (depending on the type of load)

Safety & Warnings

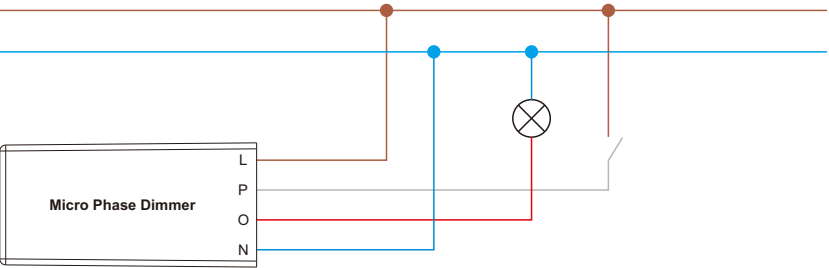
- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Wiring Diagram

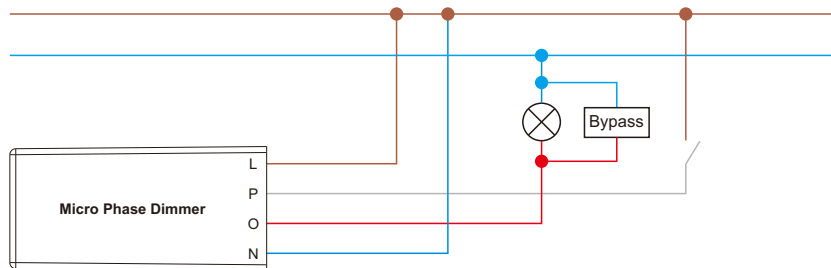
Notes for the diagrams:

- L** - for live lead
- N** - for neutral lead
- O** - output of the dimmer (controlling connected light source)
- P** - for switch

Method 1: With neutral



Method 2: Without neutral



* When using the device without neutral, the smart dimmer requires at least 20W @ 240 VAC of power consumption to operate. If the connected light has a smaller power consumption, then Bypass is needed for the device to work.

Operation

1. Do wiring according to connection diagram correctly.
2. This Matter thread device is a wireless receiver that communicates with a variety of Matter compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible Matter system.
3. Add to a Matter platform and control through the platform:

Note: An Apple HomePod mini is used as a Matter border router for adding and controlling the device. For other Matter border routers, please refer to their user manuals to learn how to add and control Matter devices.

Step 1: Prepare an iPhone (iOS 16.2 or later) or iPad (iPadOS 16.2 or later) with the latest version firmware, and prepare an Apple HomePod mini with the latest version firmware.

Step 2: Connect the iPhone or iPad to your home WLAN network. Run the Apple Home app and set up the HomePod mini as instructed by Apple (as shown in **Figure 1** to **Figure 7**).

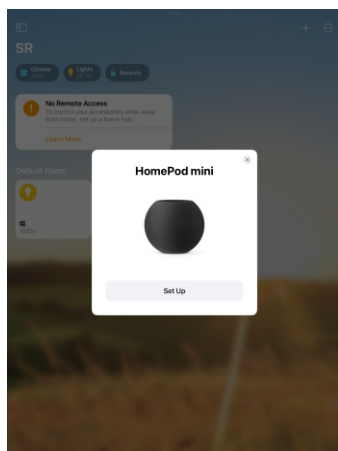


Figure 1

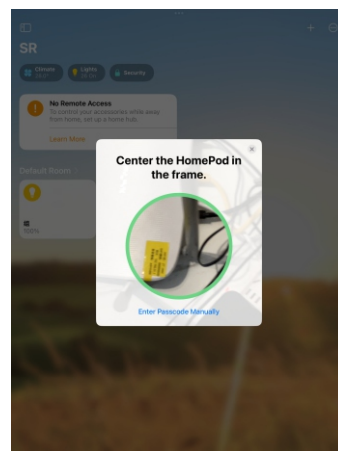


Figure 2

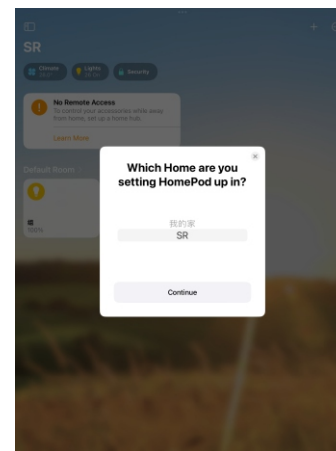


Figure 3

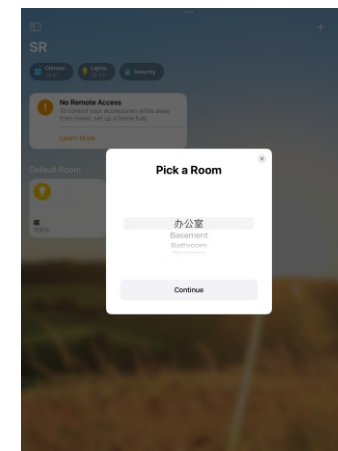


Figure 4

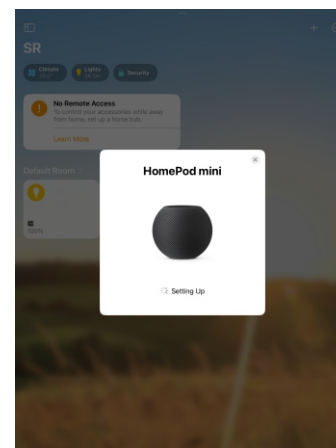


Figure 5

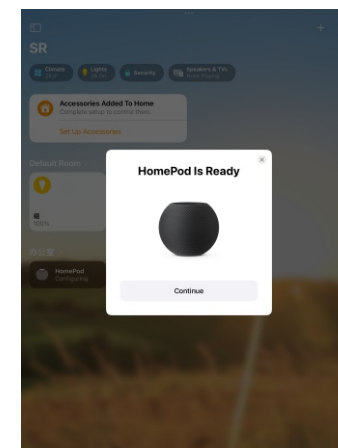


Figure 6

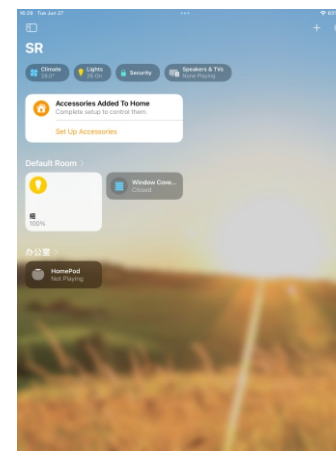


Figure 7

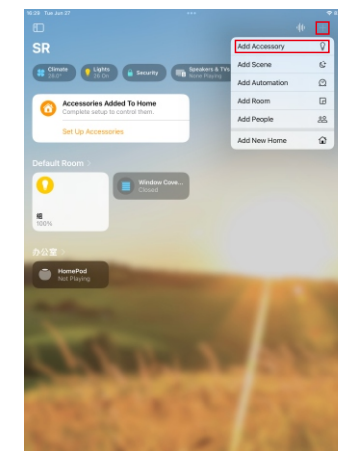


Figure 8

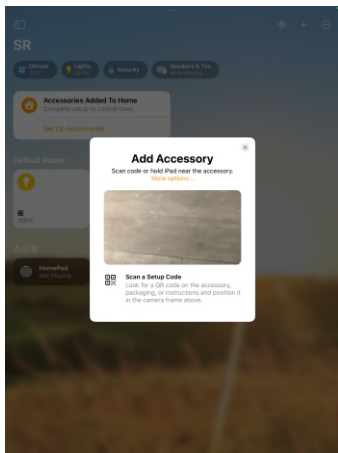


Figure 9

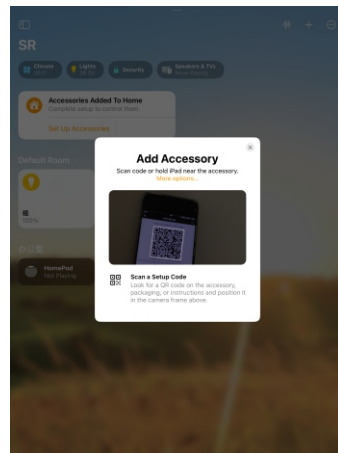


Figure 10

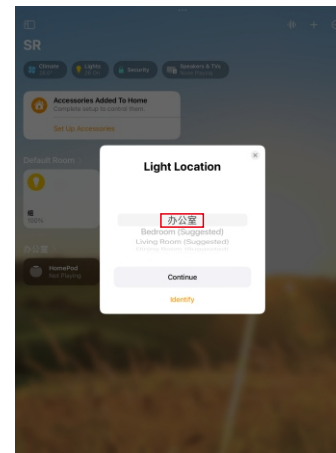


Figure 13

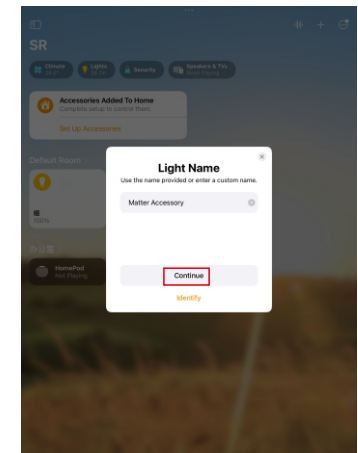


Figure 14

Step 3: Do wiring of the Matter thread dimmer according to the wiring diagram and power on it.

Step 4: Add the Matter thread dimmer to the Apple Home app by scanning the QR code sticker on the relay as shown in Figure 8 to Figure 15.

Note: When choose the room that you would like to add the dimmer to, please make sure to choose the same room that the HomePod mini is located as shown in Figure 13.

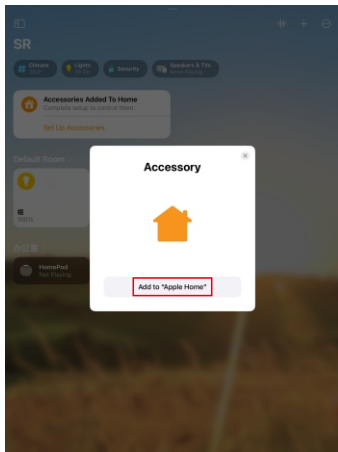


Figure 11

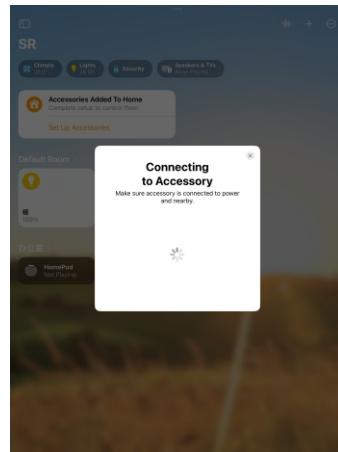


Figure 12

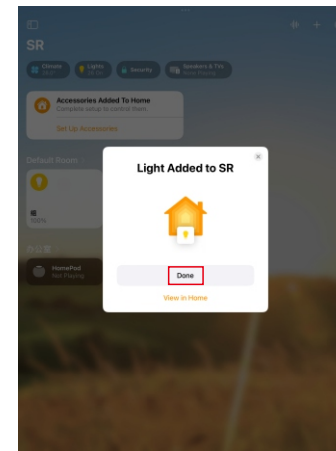


Figure 15

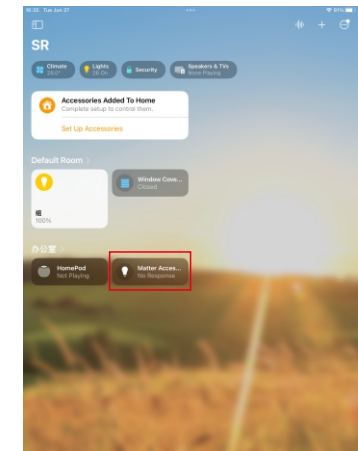


Figure 16

Note: Before you scan the QR code on the dimmer (see Figure 10), switch the dimmer power on and off 5 times to reset it. This lets the Apple Home app find the device. If the dimmer is already linked to another gateway, the current gateway will not be able to detect or add it.

Step 5: once the dimmer is added to the gateway successfully, tap on the device to control on/off and brightness of the dimmer as shown in Figure 16 to Figure 18.

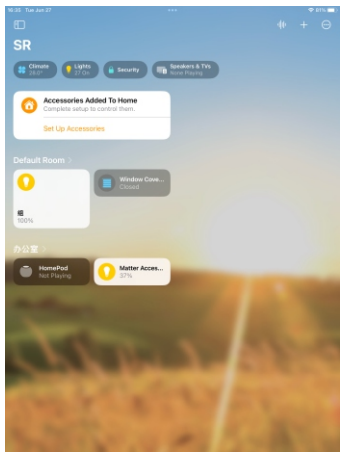


Figure 17

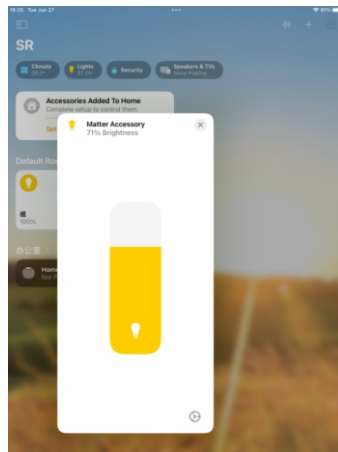
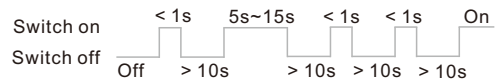


Figure 18

4. Restore factory settings

To restore the factory settings, switch the dimmer power on and off in the following sequence.



5. Touchlink to a Zigbee remote

Step 1: Switch the dimmer power on and off 4 times to start Touchlink pairing.

Step 2: Bring the remote within 10cm of the receiver.

Step 3: Set the remote into Touchlink pairing, please refer to its manual.

Step 4: There shall be indication on the remote for successful link and the connected light will flash.

Note: There are two control situations:

1) Only one remote, to control one or more receivers: directly perform Touchlink pairing between the remote and the receiver.

2) Only one receiver, to be controlled by multiple remotes, or multiple remotes and multiple receivers with cross-control: use one receiver as the Zigbee hub, add all remotes and other receivers to the hub, and then perform Touchlink pairing between the remotes and the receivers. The steps are as follows:

Step 1: Use one receiver as the Zigbee hub and switch the dimmer power on and off 4 times to start adding Zigbee devices.

Step 2: Reset power of another receiver once to enter Zigbee network pairing mode, it will be added by the hub, and the connected light will flash.

Step 3: Set a Zigbee remote to enter Zigbee network pairing mode, it will be added by the hub, and the indicator will flash to indicate.

Step 4: Add more receivers and remotes to the hub as you would like, refer to the corresponding remote manual.

Step 5: Touchlink the added receivers and the remotes.

6. Learning to a Zigbee Green Power Switch

Step 1: Switch the dimmer power on and off 4 times to start Learning mode.

Step 2: Set the green power switch into Learning mode, please refer to its manual.

Step 3: There shall be indication on the switch for successful learning.

Note: There are two control situations:

1) Only one receiver, to be controlled by multiple GP switches: directly perform pairing between the GP switch and the receiver.

2) Only one GP switch, to control multiple receivers, or multiple GP switches and multiple receivers with cross-control: use one receiver as the Zigbee hub, add all other receivers to the hub, and then pair the GP switch with the receiver. The steps are as follows:

Step 1: Use one receiver as the Zigbee hub and switch the dimmer power on and off 4 times to start adding Zigbee devices.

Step 2: Reset power of another receiver once to enter Zigbee network pairing mode, it will be added by the hub and the connected light will flash.

Step 3: Add more receivers to the hub as you would like.

Step 4: Pair the added receivers with the GP switches.