

Treatlife 3 Way Switch

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Overview

We will detail the steps required to flash the open source Tasmota firmware on a Treatlife 3 way switch and configure it to work with Homebridge.

Hardware

GPIO	Details
4	White LED
5	Red LED
12	Relay
13	Button
14	Sensor

Install Tuya Convert on a Raspberry Pi

See <https://github.com/ct-Open-Source/tuya-convert>

Flash Device

Detailed instructions can be found: <https://github.com/ct-Open-Source/tuya-convert>

You will need to hold down the button to get this switch to flash.

```
> ./start_flash.sh
```

Configuring Switch

Configuring WIFI

Connect to the flashed device by looking for it's SSID - tasmota-####

Browse to <http://192.168.4.1/>

Configure the SSID and password.

The dimmer will reboot and connect to your wifi network. Check your router to find out it's IP address and connect to it via your browser.

Set the GPIOs

3 Way Setup

From the Configuration Configure Other screen, input the template and friendly name:

Template:

```
{"NAME": "Treatlife 3-Way", "GPIO": [0, 0, 0, 0, 21, 158, 0, 0, 22, 18, 9, 0, 0], "FLAG": 0, "BASE": 18}
```

Generic Module

garage-light

Other parameters

Template

`{"NAME": "Treatlife 3-Wa", "GPIO": [0, 0, 0, 0`

☐ **Activate**

Web Admin Password

☒ **MQTT enable**

Friendly Name 1 (Tasmota)

garage-light

Emulation

☒ **None**

☐ **Belkin WeMo** single device

☐ **Hue Bridge** multi device

Save

You should end up with a configuration that looks like:

Treatlife 3-Wa Module

garage-light

Module parameters

Module type (Sonoff Basic)

Treatlife 3-Wa (0) ▼

Save

Configuration

Tasmota 8.1.0 by Theo Arends

2 Way Setup

```
> backlog module 18;gpio4 52;gpio5 0;gpio12 29;gpio13 17;gpio14 0;switchmode 1
```

Generic Module

Tasmota

Module parameters

Module type (Generic)

Generic (18)

D3 GPIO0 Button1

None (0)

TX GPIO1 Serial Out

None (0)

D4 GPIO2

None (0)

RX GPIO3 Serial In

None (0)

D2 GPIO4

Led1i (56)

D1 GPIO5

None (0)

D6 GPIO12 Relay1

Relay1 (21)

D7 GPIO13 Led1i

Button1 (17)

D5 GPIO14 Sensor

None (0)

D8 GPIO15

None (0)

D0 GPIO16

None (0)

A0 ADC0

None (0)

Save

Configuration

Tasmota 7.0.0.3 by Theo Arends

Homebridge Config

For integration with Homebridge, we are going to use the mqttthing plugin and run all of the commands through an mqtt server.

Tasmota Setup:

Generic Module

garage-light

MQTT parameters

Host ()

192.168.1.50

Port (1883)

1883

Client (DVES_2D3E52)

garage-light

User (DVES_USER)

garage-light

Password ■

....

Topic = %topic% (tasmota)

garage-light

Full Topic (%prefix%/ %topic%/)

%prefix%/ %topic%/

Save

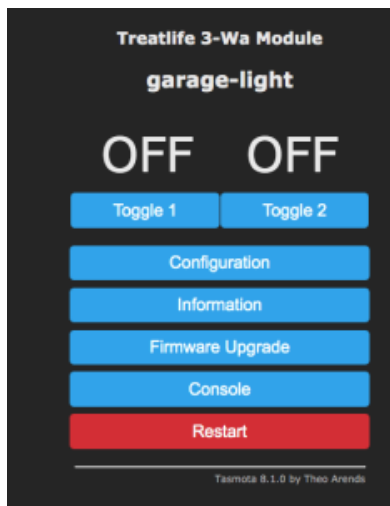
Homebridge Config File

3-Way Setup:

```
{
  "accessory": "mqttthing",
  "type": "lightbulb",
  "name": "garage-light",
  "url": "http://192.168.1.50:1883",
  "username": "homebridge",
  "password": "pass",
  "topics": {
    "getOn": "stat/garage-light/POWER1",
    "setOn": {
      "topic": "cmdnd/garage-light/POWER2",
      "apply": "return 'toggle';"
    }
  },
  "onValue": "ON",
  "offValue": "OFF",
  "startPub": {
    "cmdnd/garage-light/POWER1": ""
  },
  "confirmationPeriodms": 1000
},
```

Out of Sync

Sometimes the switch may be out of sync with what it reports to homebridge. When you click Toggle 2, the Toggle1 should reflect the current state of the light. If this is not the case, click the Toggle 1 button.



<http://192.168.1.172>

Reference

Reference	URL
Tuya Convert	https://github.com/ct-Open-Source/tuya-convert
*Lasted Docs on Tuya MCU for Tasmota	https://tasmota.github.io/docs/#/TuyaMCU?id=tuyamcu-command
*How to setup a Tuya MCU Dimmer (Video)	https://www.youtube.com/embed/_3WW4NVYHrU
* List of supported Tuya Convert devices	https://github.com/ct-Open-Source/tuya-convert/wiki/Compatible-devices-(HTTP-firmware)
* Video showing how to configure Treatlife 3way	https://www.youtube.com/watch?v=9LlaDN7Nx2E
TreatLife 3-Way Switch	https://templates.blakadder.com/treatlife_SS02.html