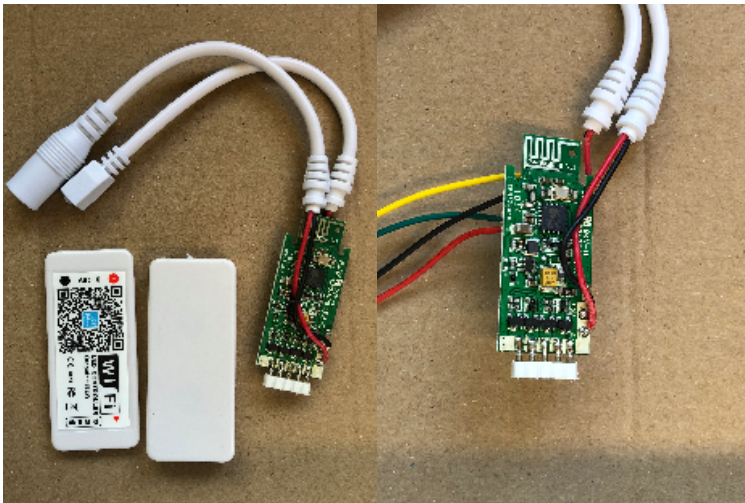


MagicHome RGB Light Strip

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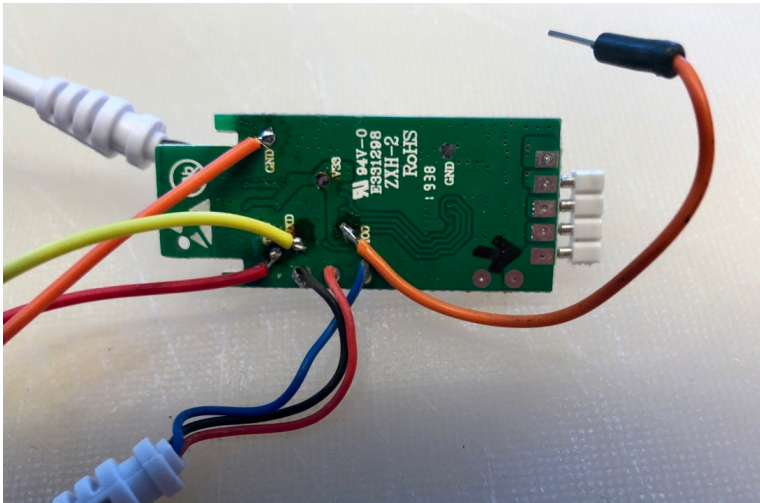
Hardware Overview

Spec	Details
Model	ZJ-WFMN-A V1.1
CHIP	ESP8285
Color Support	RGB
IR Receiver	Yes



Flashing Tasmota

Get the board in firmware upload mode by grounding GPIO-0.



From the Arduino IDE, set your board as follows. This is an ESP8285 board.



Tasmota Setup

Module Configuration

ZJ-WFMN-A V1.1 (RGB version) alias Arilux LC01

Automatic configuration: (No IR Support)

Field	Value	Function
Module type	37 Arilux LC01	Module type

For IR Functionality:

Field	Value	Function
Module type	18 Generic	Module type
GPIO5	37 PWM1	RED
GPIO12	38 PWM2	GREEN
GPIO13	39 PWM3	BLUE

GPIO4	51 IRrecv	IR Receiver
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IR Remote Rules

Copy this Code to your console to use the 24 Button IR Remote

```
rule1
on IrReceived#Data=0x00FFB04F do power1 on endon
on IrReceived#Data=0x00FFF807 do power1 off endon
on IrReceived#Data=0x00FF906F do dimmer + endon
on IrReceived#Data=0x00FFB847 do dimmer - endon
on IrReceived#Data=0x00FFB24D do scheme 0 endon
on IrReceived#Data=0x00FF00FF do scheme 4 endon
on IrReceived#Data=0x00FF58A7 do scheme 2 endon
on IrReceived#Data=0x00FF30CF do scheme 3 endon
```

```
rule2
on IrReceived#Data=0x00FF9867 do color2 #FF0000 endon
on IrReceived#Data=0x00FFE817 do color2 #470D00 endon
on IrReceived#Data=0x00FF02FD do color2 #381600 endon
on IrReceived#Data=0x00FF50AF do color2 #331E00 endon
on IrReceived#Data=0x00FF38C7 do color2 #332800 endon
on IrReceived#Data=0x00FFD827 do color2 #00FF00 endon
on IrReceived#Data=0x00FF48B7 do color2 #00330A endon
on IrReceived#Data=0x00FF32CD do color2 #003314 endon
on IrReceived#Data=0x00FF7887 do color2 #00331E endon
```

```
rule3
on IrReceived#Data=0x00FF28D7 do color2 #003328 endon
on IrReceived#Data=0x00FF8877 do color2 #0000FF endon
on IrReceived#Data=0x00FF6897 do color2 #0A0033 endon
on IrReceived#Data=0x00FF20DF do color2 #140033 endon
on IrReceived#Data=0x00FF708F do color2 #140033 endon
on IrReceived#Data=0x00FFF00F do color2 #280033 endon
on IrReceived#Data=0x00FFA857 do color2 #FFFFFF endon
```

and then activate the rules

```
Backlog rule1 1; rule2 1; rule3 1
```

Homebridge Integration

```

{
  "accessory": "mqttthing",
  "type": "lightbulb",
  "name": "<name of lightbulb>",
  "url": "<url of MQTT server (optional)>",
  "username": "<username for MQTT (optional)>",
  "password": "<password for MQTT (optional)>",
  "caption": "<label (optional)>",
  "topics":
  {
    "getOn": "<topic to get the status>",
    "setOn": "<topic to set the status>",
    "getBrightness": "<topic to get the brightness (optional)>",
    "setBrightness": "<topic to set the brightness (optional - if dimmable)>",
    "getHue": "<topic to get the hue (optional)>",
    "setHue": "<topic to set the hue (optional - if coloured)>",
    "getSaturation": "<topic to get the saturation (optional)>",
    "setSaturation": "<topic to set the saturation (optional - if coloured)>",
    "getHSV": "<in HSV mode, topic to get comma-separated hue, saturation and value>",
    "setHSV": "<in HSV mode, topic to set comma-separated hue, saturation and value>",
    "getRGB": "<in RGB mode, topic to get comma-separated red, green, blue>",
    "setRGB": "<in RGB mode, topic to set comma-separated red, green, blue>",
    "getRGBW": "<in RGBW mode, topic to get comma-separated red, green, blue, white>",
    "setRGBW": "<in RGBW mode, topic to set comma-separated red, green, blue, white>",
    "getRGBWW": "<in RWGWW mode, topic to get comma-separated red, green, blue, warm_white, cold_white>",
    "setRGBWW": "<in RWGWW mode, topic to set comma-separated red, green, blue, warm_white, cold_white>",
    "getWhite": "<topic to get white level (0-255)> - used with getRGB for RGBW with separately-published white level",
    "setWhite": "<topic to set white level (0-255)> - used with setRGB for RGBW with separately-published white level",
    "getColorTemperature": "<topic to report color temperature (optional)>",
    "setColorTemperature": "<topic to control color temperature (optional)>"
  },
  "integerValue": "true to use 1|0 instead of true|false default onValue and offValue",
  "onValue": "<value representing on (optional)>",
  "offValue": "<value representing off (optional)>",
  "hex": "true to format combined RGB/RGBW in hexadecimal instead of as comma-separated decimals",
  "hexPrefix": "format combined RGB/RGBW in hexadecimal with specified prefix (typically '#') instead of as comma-separated decimals",
  "turnOffAfterms": "<milliseconds after which to turn off automatically (optional)>",
  "warmWhite": "in RGBWW mode, RGB value of warm white in format red,green,blue (optional)",
  "coldWhite": "in RGBWW mode, RGB value of cold white in format red,green,blue (optional)"
}

```

```

{
  "accessory": "mqttthing",
  "type": "lightbulb",
  "name": "rgb1",
  "url": "http://192.168.1.60:1883",
  "username": "homebridge",
  "password": "pass",
  "topics":
  {
    "getOn": "stat/rgb1/POWER",
    "setOn": "cmnd/rgb1/POWER",
    "getBrightness": {
      "topic": "stat/rgb1/RESULT",
      "apply": "return JSON.parse(message).Dimmer;"
    },
    "setBrightness": "cmnd/rgb1/Dimmer",
    "getRGB": {
      "topic": "stat/rgb1/RESULT",
      "apply": "return JSON.parse(message).Color;"
    },
    "setRGB": "cmnd/rgb1/Color"
  },
  "onValue": "ON",
  "offValue": "OFF",
  "startPub":
  {
    "cmnd/rgb1/POWER": "",
    "cmnd/rgb1/Dimmer": "",
    "cmnd/rgb1/Color": ""
  },
  "confirmationPeriodms": 1000
}

```

Other Commands:

Fade - ON/OFF

<http://192.168.1.176/cm?&cmnd=Fade%20ON>

Speed 0-40

<http://192.168.1.176/cm?&cmnd=Speed%2040>

Scheme 0-4

<http://192.168.1.176/cm?&cmnd=Scheme%205>

Issuing Commands over HTTP

> <http://192.168.1.176/cm?&user=admin&password=XXX&cmnd=Color>

> [http://192.168.1.176/cm?&user=admin&password=XXX&cmnd=POWER ON](http://192.168.1.176/cm?&user=admin&password=XXX&cmnd=POWER%20ON)

References

Reference	URL
MagicHome with ESP8285	https://github.com/arendst/Tasmota/wiki/MagicHome-with-ESP8285
IR Rules	https://github.com/arendst/Tasmota/wiki/Arilux-LC04
mqttthing	https://www.npmjs.com/package/homebridge-mqttthing