



# Is it possible to replace the WR3 module with an ESP-12 module

In this Documentation I am showing what I was able to find out about the MiBoxer WL5 5 in 1 WiFi RGB+CCT Controller.

 Difficulty **Medium**

 Duration **20 minute(s)**

 Categories **Electronics**

 Cost **15 EUR (€)**

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Step 2 - The Top and bottom side of the whole PCB.

Comments

## Introduction

I ordered a RGB+CCT controller online and to my surprise the device came with a new Tuya WiFi module instead of an ESP module. Now I am trying to swap the WR3 Tuya WiFi module with an ESP-12f module.

In the following steps I will display my findings.

## Materials

## Tools

### Step 1 - The PCB on which the Tuya WR3 module is soldered on.

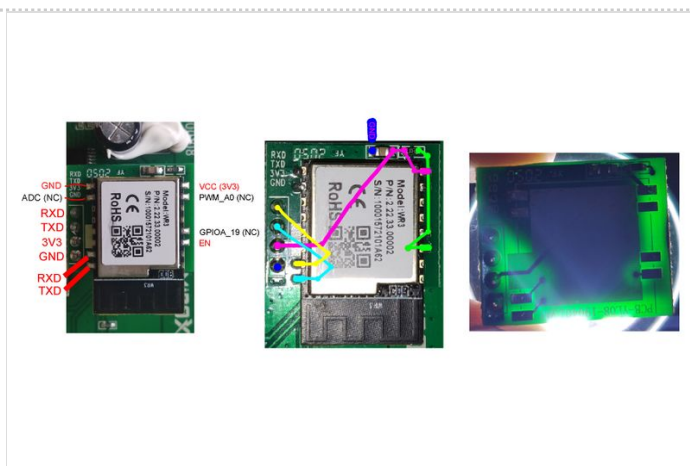
I desoldered the WR3 module to check the connections with my meter and also used a lamp to expose the traces.

I checked the connections and it seems that only RX, TX, VCC, GND and EN are connected.

I found this thread, but still do not know how to connect it properly. I will figure out the software side.

<https://github.com/arendst/Tasmota/issues/7385>

The ESP is used with Tasmota installed and communicates with the IC over serial.



## Step 2 - The Top and bottom side of the whole PCB.

This shows the top and bottom side

