

# Reset a Parallax WiFi module to factory default state by reprogramming the original firmware

Community Contribution - Not an official Parallax document

Last Updated: 2025.Jan.28. By Michael Mulholland

Firmware Version is the official Parallax release v1.64 for **SIP type module ONLY!**

## Connections

PropPlug to SIP pins

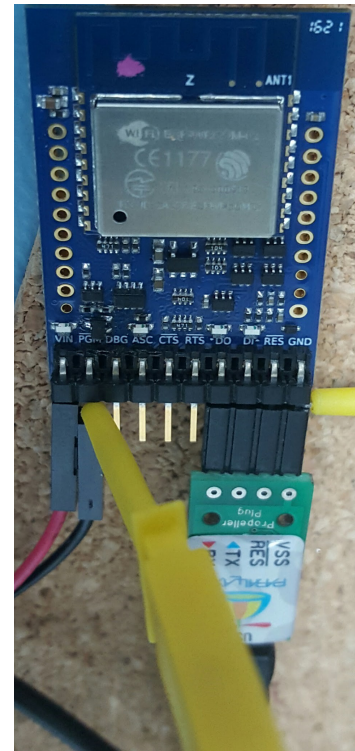
+5V and GND to VIN and GND

Jumper from GND to PGM pin (yellow clips in the photo)

## Prepare

Connect the PropPlug to your computer USB, and figure out what COM port your computer gives to the PropPlug connection.

Also unzip the files that come with this document to your PC. In this example, I unzipped them to C:\ParallaxWiFiFlash. It doesn't matter where you unzip them- just replace that folder name in the command below!



## Command

### EITHER

Edit the batch file "run\_PROGRAM\_SIP\_MODULE\_xxxx.bat" with any text editor. Change the comport number at the 3<sup>rd</sup> line to match your computer comport. Save the bat file. Then double-click the file to start programming.

### OR

Open a windows command prompt (if you have a windows key on your keyboard, hold that and press R)

Go to the folder where you unzipped the files (ie. cd C:\ParallaxWiFiFlash)

Type or paste in this command and substitute the COM port number (shown in bold) with the one your computer gave to your PropTool:

```
esptool -cd none -cb 921600 -cp COM9 -bz 2M -bf 80 -bm qio -ca
0x000000 -cf boot_v1.6.bin -ca 0x010000 -cf httpd.user1.bin -ca 0x7e000
-cf blank.bin -ca 0x7f000 -cf blank.bin -ca 0x100000 -cf fsimage.bin
-ca 0x3FC000 -cf esp_init_data_default.bin -ca 0x3fe000 -cf blank.bin
-ca 0x3fa000 -cf blank.bin
```

Press enter and wait for the re-programming to complete!

Once finished, remove the jumper cable between PWM and GND, and power-cycle your WiFi module. It will now be at factory default state, so you will be able to scan for it as a WiFi access point (perhaps with your smartphone or laptop). You will see it listed as "WX\_????". Connect to it, then browse to <http://192.168.4.1>

## Example Command

This is a copy/paste of the windows command terminal after I ran the command successfully. You should expect to see something like this!

```
C:\ParallaxWiFiFlash>esptool -cd none -cb 921600 -cp COM9 -bz 2M -bf 80
-bm qio -ca 0x000000 -cf boot_v1.6.bin -ca 0x010000 -cf httpd.user1.bin
-ca 0x7e000 -cf blank.bin -ca 0x7f000 -cf blank.bin -ca 0x100000 -cf
fsimage.bin -ca 0x3FC000 -cf esp_init_data_default.bin -ca 0x3fe000
-cf blank.bin -ca 0x3fa000 -cf blank.bin
```

Uploading 3856 bytes from boot\_v1.6.bin to flash at 0x00000000

....

Uploading 307780 bytes from httpd.user1.bin to flash at 0x00001000

.....  
.....  
.....

Uploading 4096 bytes from blank.bin to flash at 0x0007E000

....

Uploading 4096 bytes from blank.bin to flash at 0x0007F000

....

Uploading 4096 bytes from blank.bin to flash at 0x003FE000

....

C:\ParallaxWiFiFlash>