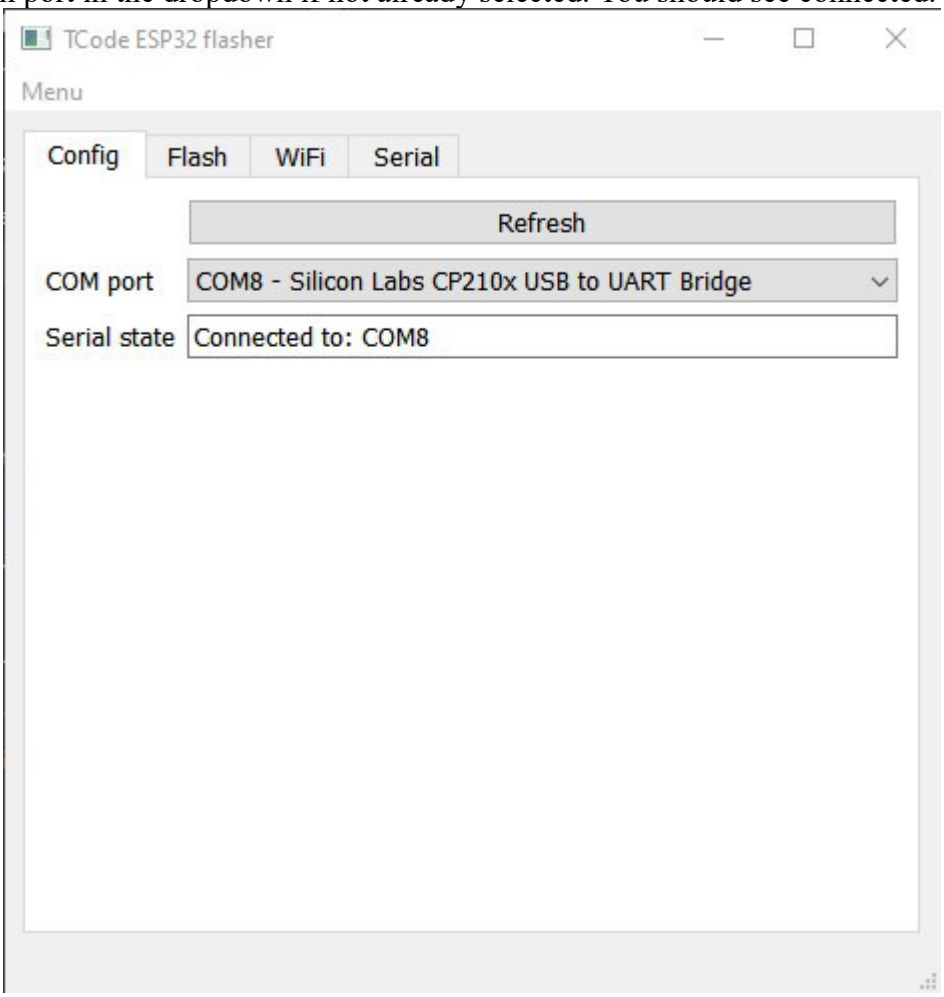
How to flash the binaries of the ESP32 edition of TCode controller

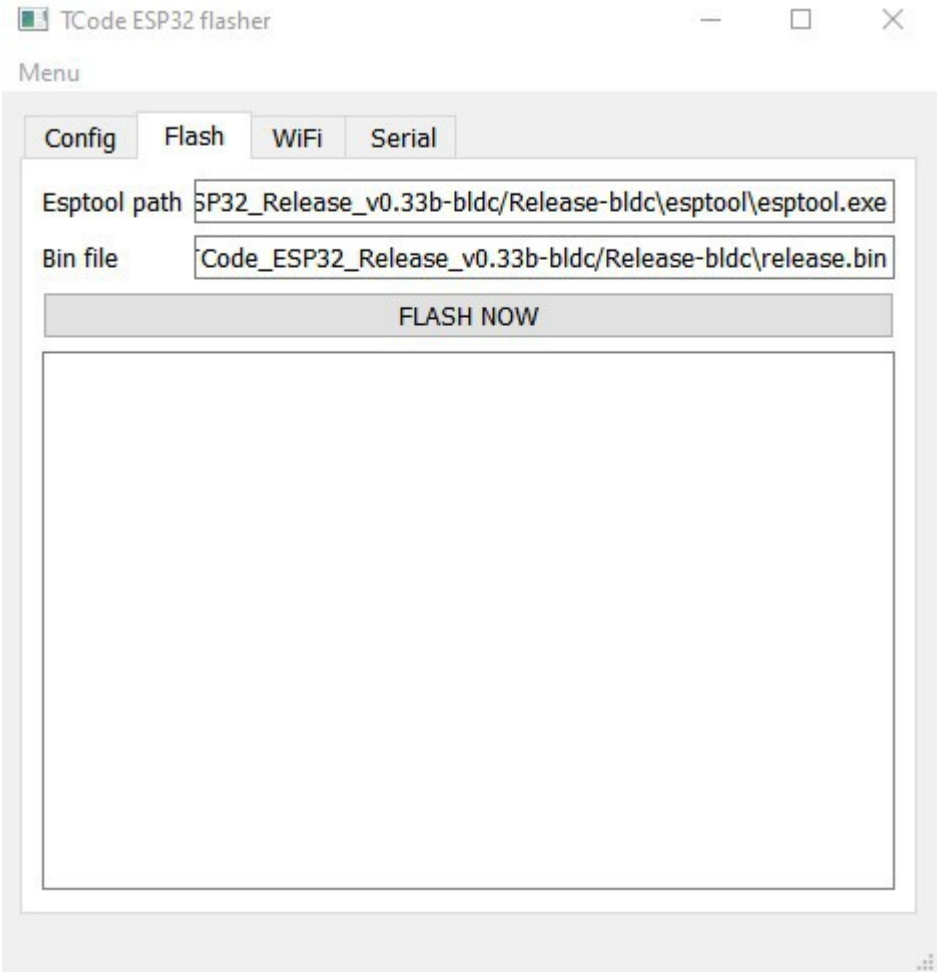
Extract the zip archive.
(Linux/Mac users click here See command example.txt for the command to run)

(Windows users: this may work in other OS' with an API layer (Wine/Parallels) I've not tested.
Run “flash.exe”
Select your com port in the dropdown if not already selected. You should see connected.

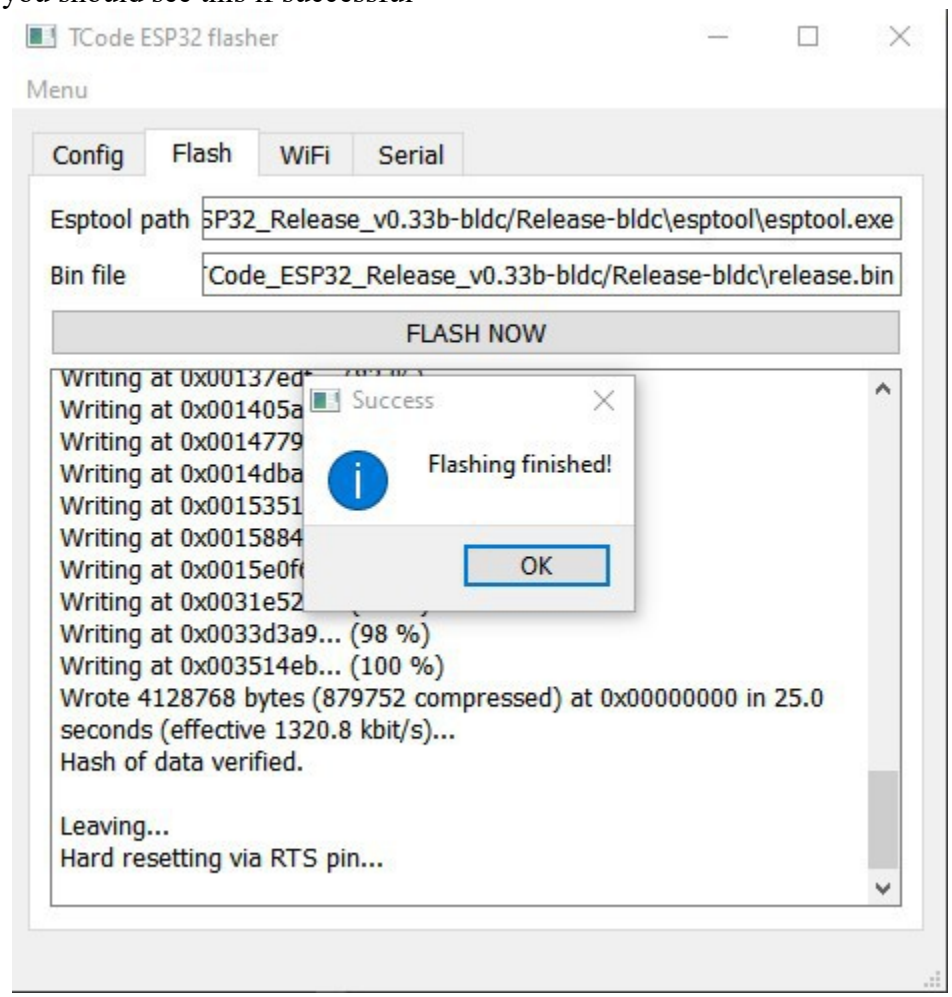


If your ESP32 isn't recognized as a COM port you may need to install the drivers for your USB chip.
For micro USB Devkit https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers
For USB-C Devkit (CH340) https://learn.sparkfun.com/tutorials/how-to-install-ch340-drivers/all

Select the Flash tab (most should leave everything at default on this tab) then click Flash Now
Note: If you get a error that mentions the boot mode, hold the boot button in the Devkit until the dots stop.



After flashing you should see this if successful



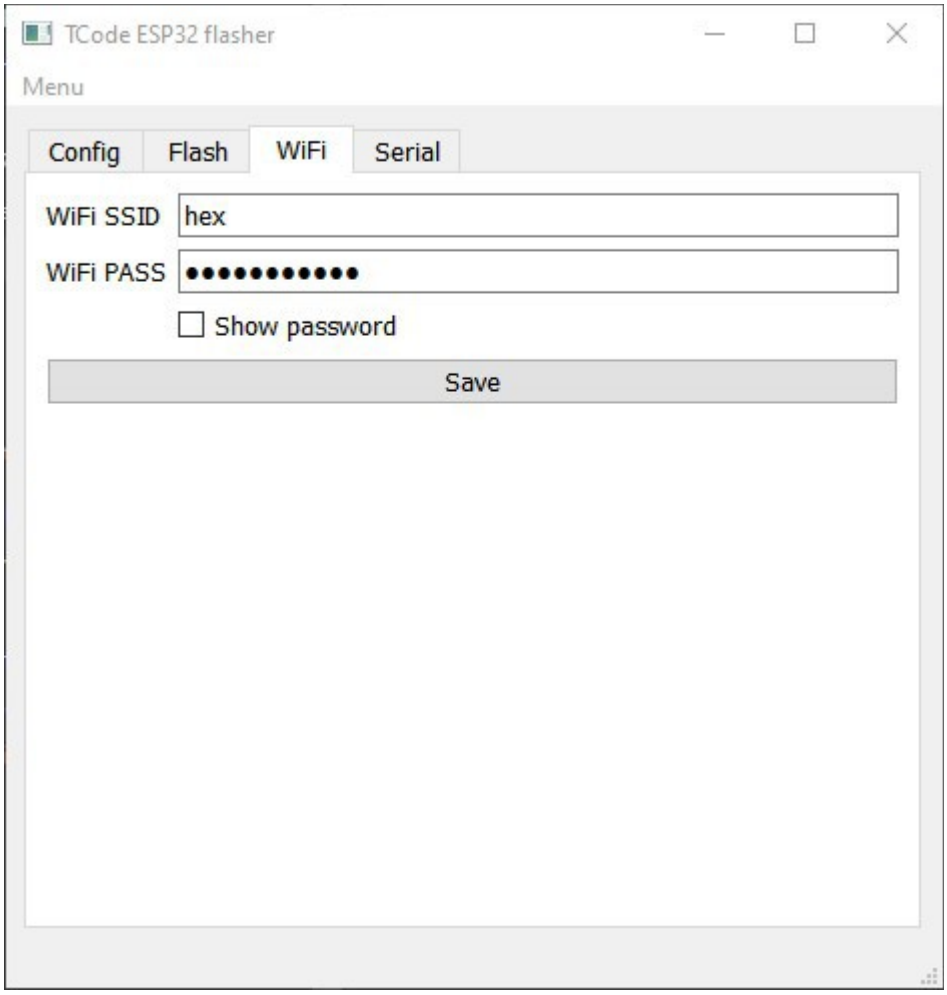
Now that your image is flashed time to configure the wifi if you wish to do so
IMPORTANT! The ESP32 we are using currently is ONLY compatible with 2.4ghz WiFi

You can either configure WifF with the flasher, AP mode or Serial monitor.
Skip to the chosen section below.

Flasher configuration:

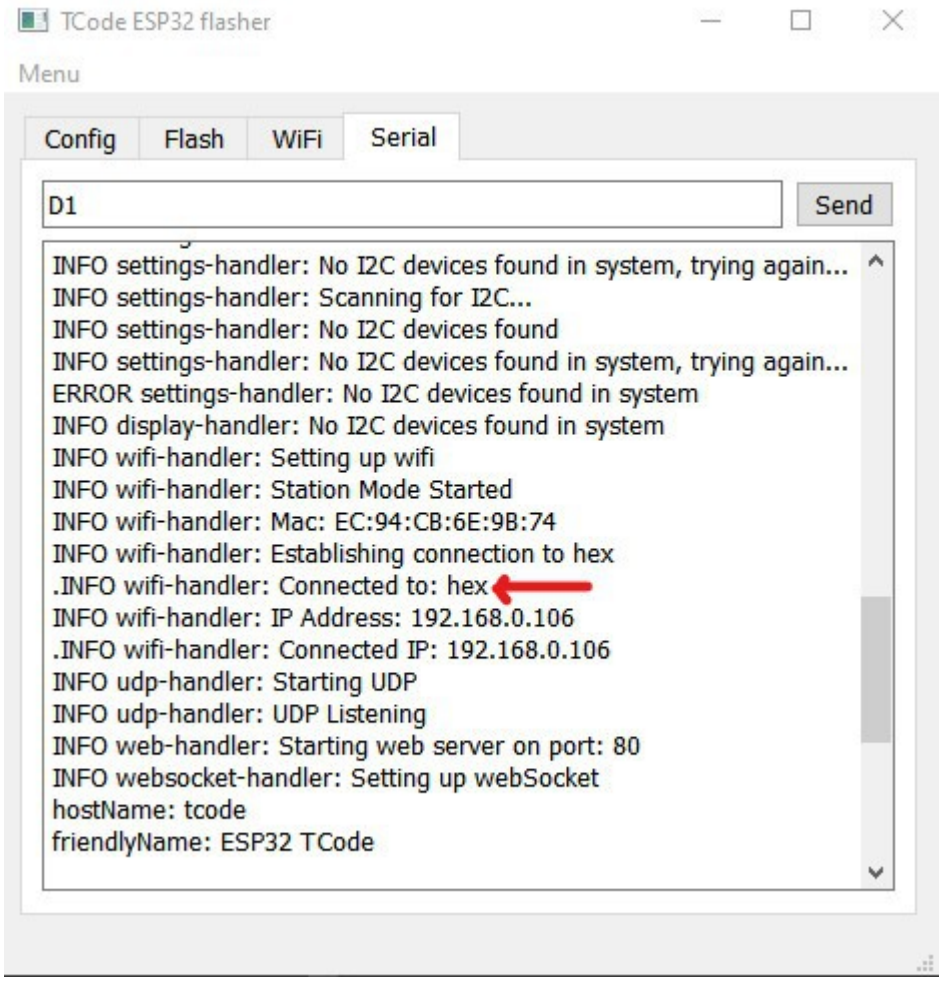
Select the WiFi tab and enter your 2.4ghz SSID and password

Click Save



On success, the app will switch to the Serial tab to view the output.

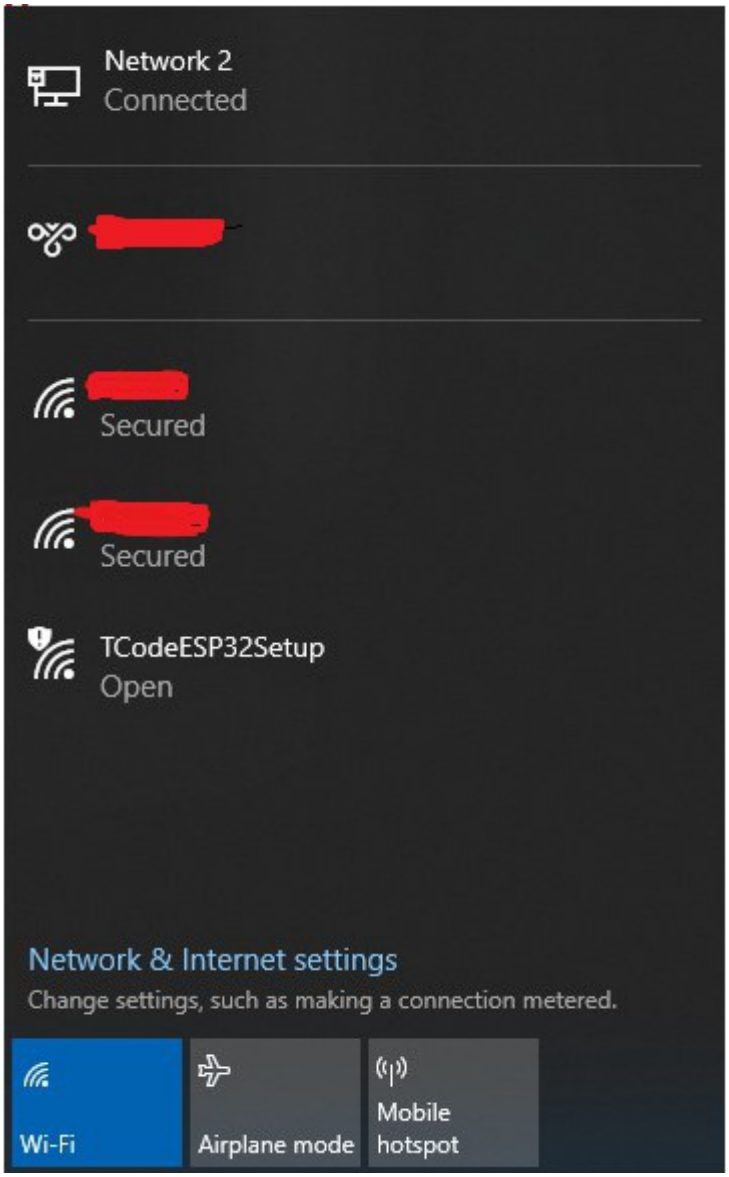
Here you can validate the ESP32 connects to your network.



You can also enter other Tcode commands here to test your device is working correct.

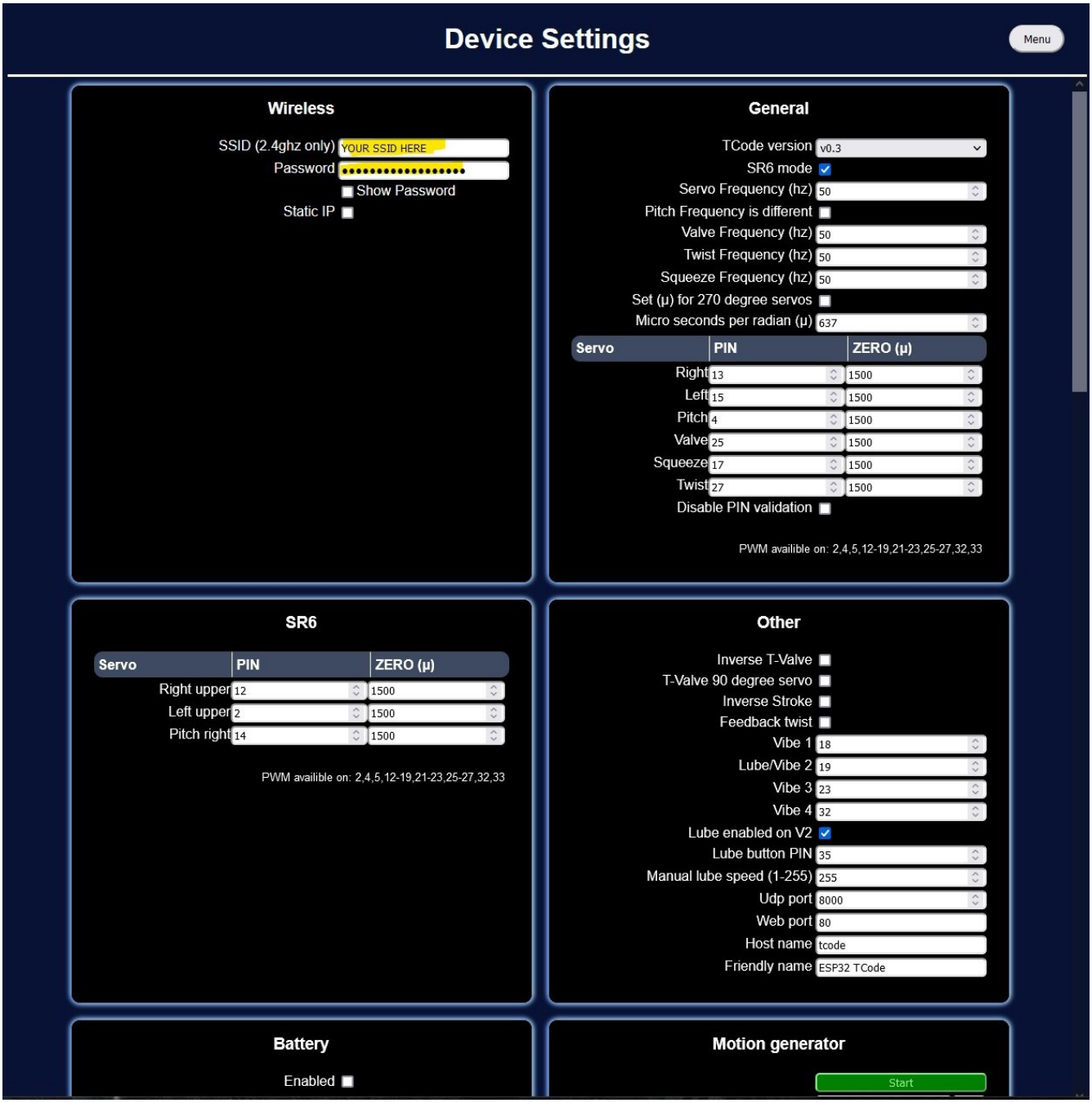
AP configuration:

Check your available wifi networks

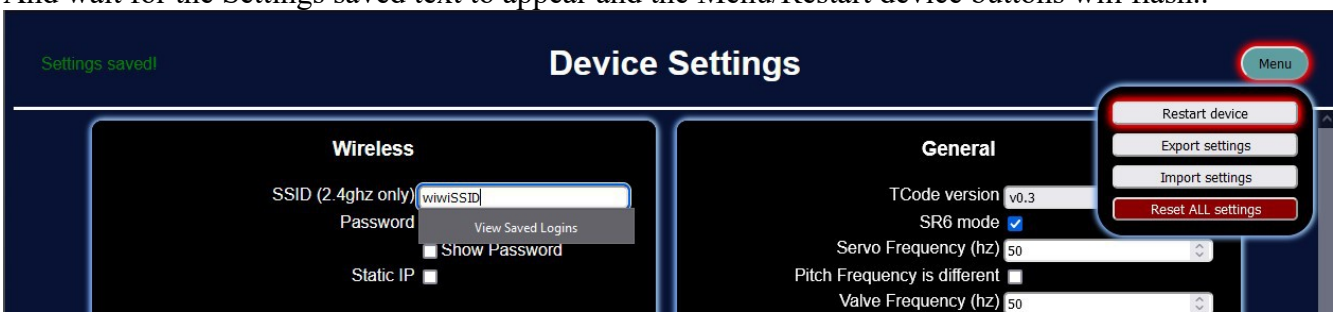


Connect to TcodeESP32Setup (leave connect automatically **unchecked**)
No password
Once connected (It can be slow be patient. About 30 secs or so)

Open your internet browser and navigate to 192.168.69.1
Enter your wifi ssid and password and change the network info if required



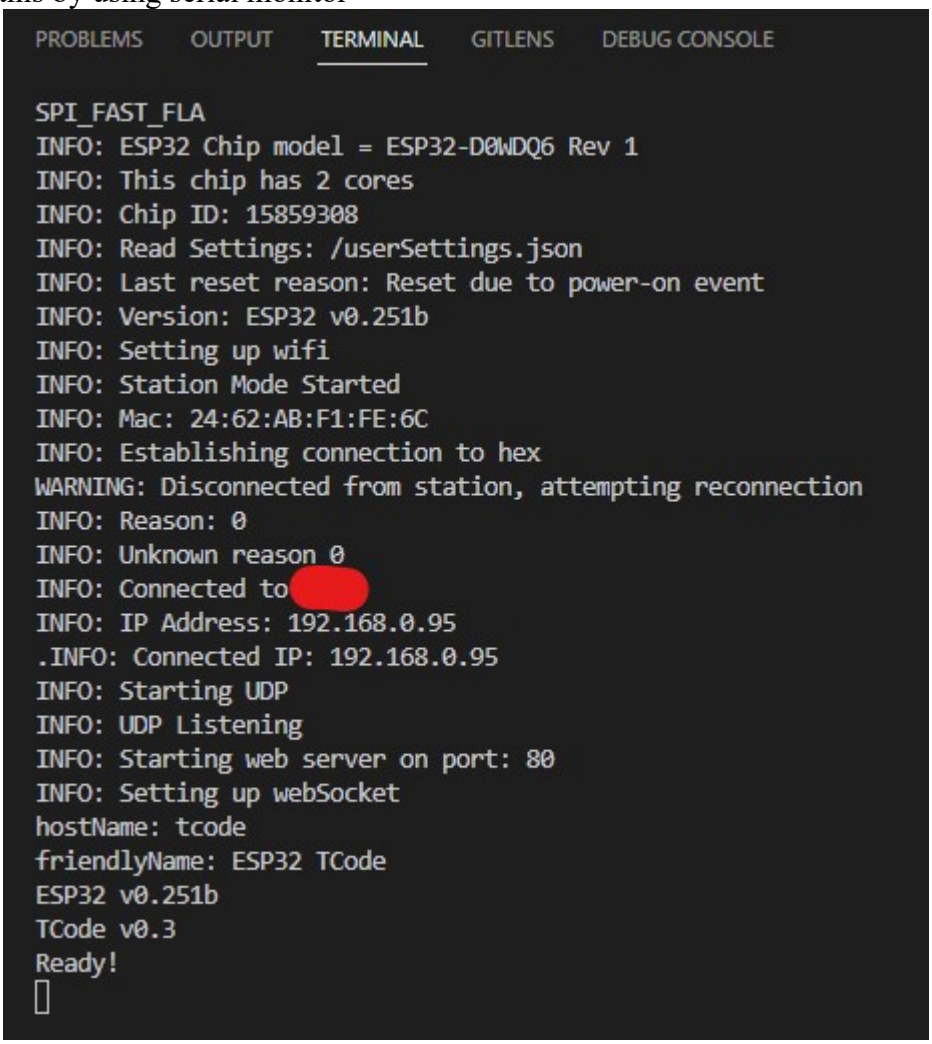
And wait for the Settings saved text to appear and the Menu/Restart device buttons will flash..



Click restart device or unplug and re-plug the usb powering the ESP32.

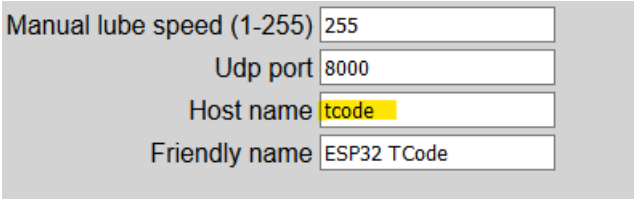
Your device should reboot and connect to the network.

You can verify this by using serial monitor



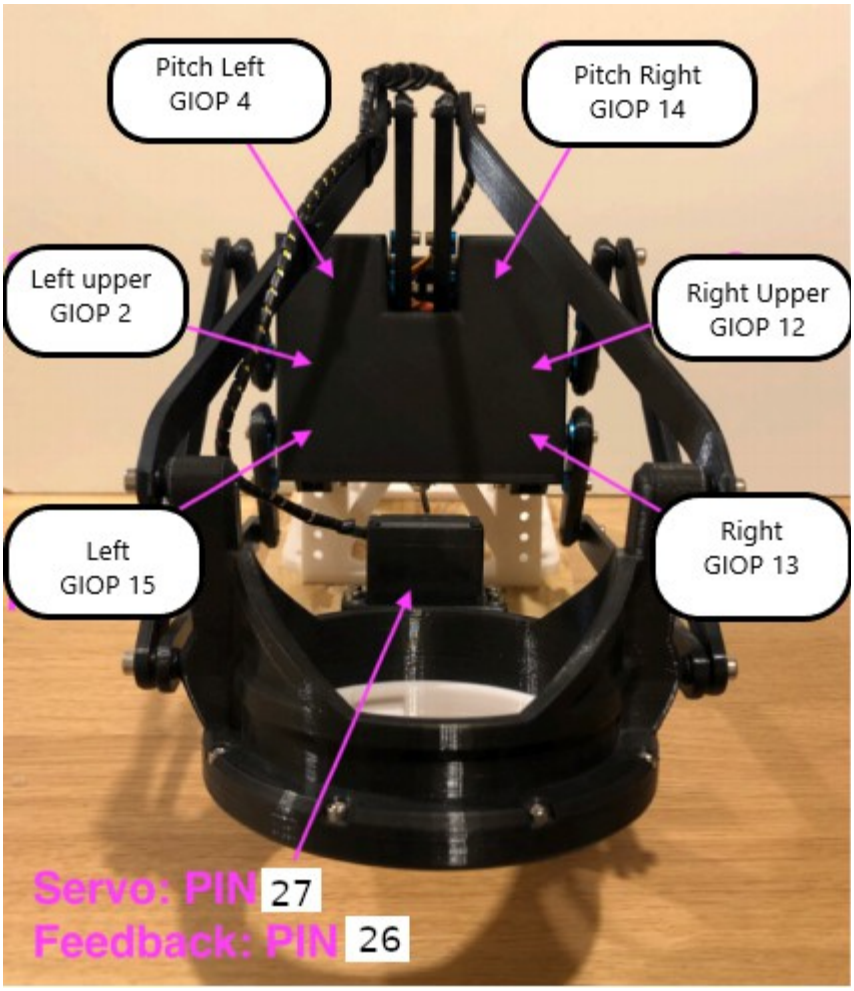
Or by logging into your router and looking for A Device named “TcodeESP32”

You should now be able to access the configuration page from or what ever you type into the Host



name field on the configuration.

Once you have this IP address you can get into your machine settings via the web browser.
From here you can view the default pin out and change them if you know what you are doing.

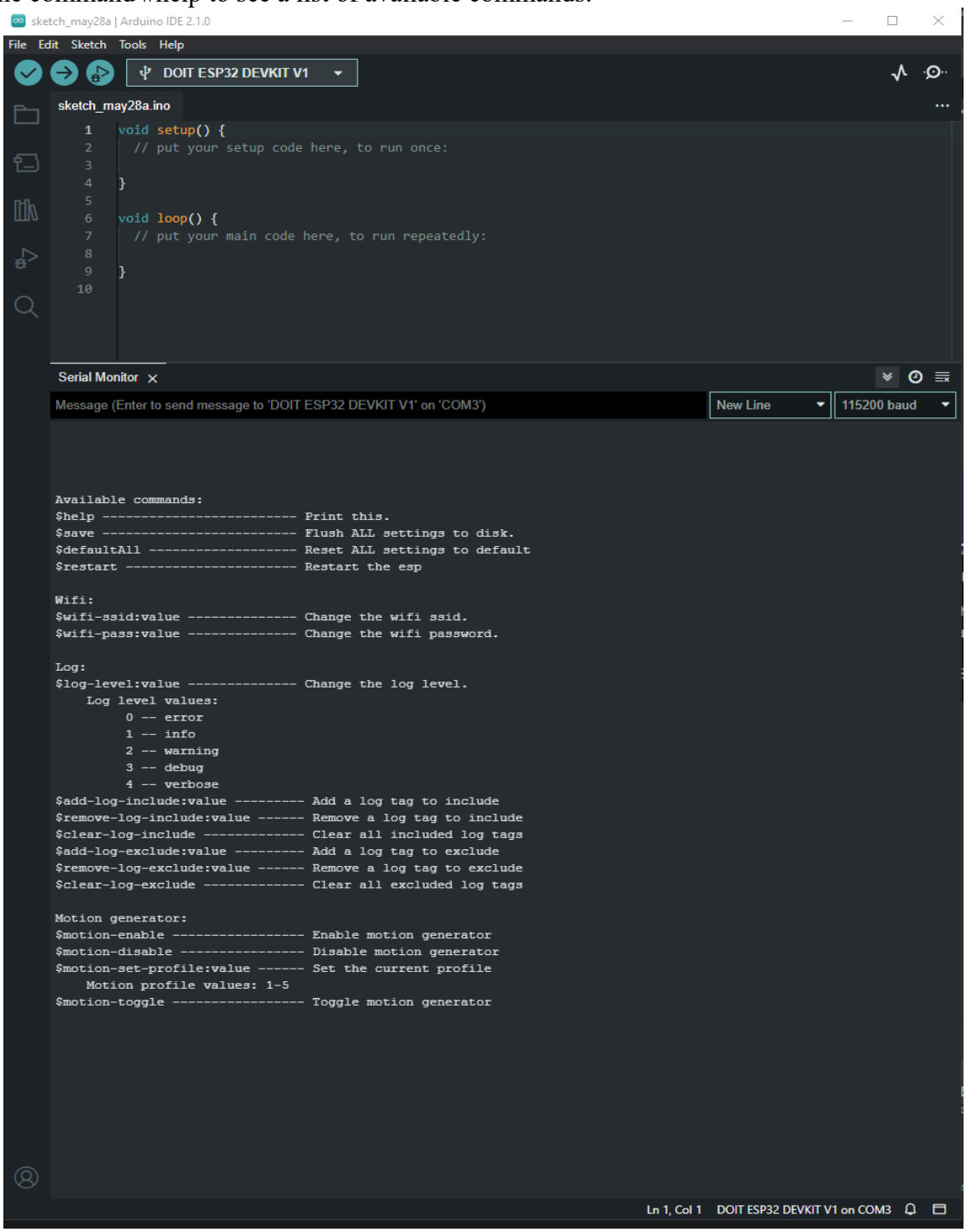


You can also set the default servo zeros.
If you are using this in an OSR MAKE SURE YOU UNCHECK “SR6 Mode”

Serial monitor configuration

If you can't connect to the APMode method above for some reason you can configure some device settings over serial communications including the wifi router login settings.

Connect to the esp32 via Serial monitor in Arduino ide or your app of choice.
Enter the command #help to see a list of available commands.



Conclusion

Now wifi is connected you can get to the web page via either http://tcode.local or http://<ipaddress> and configure the rest this firmware.
Enjoy your wireless device!