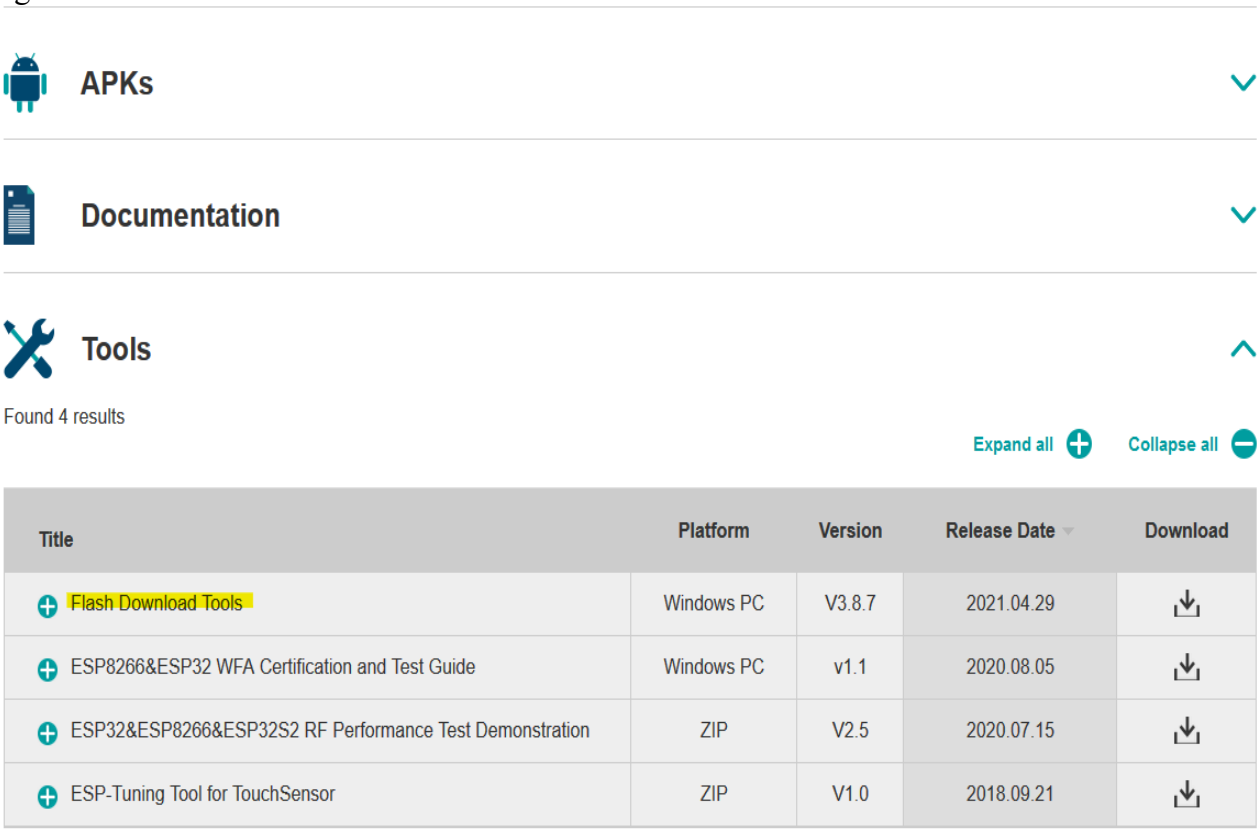
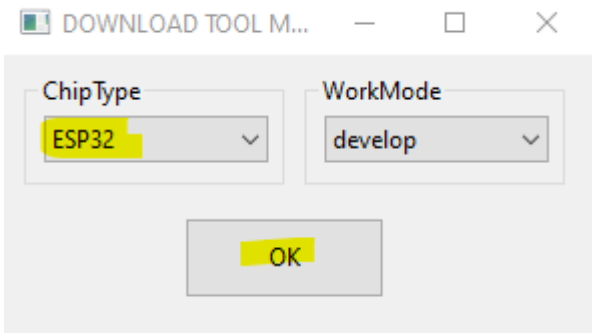
How to flash the binaries of the ESP32 edition of TCode controller

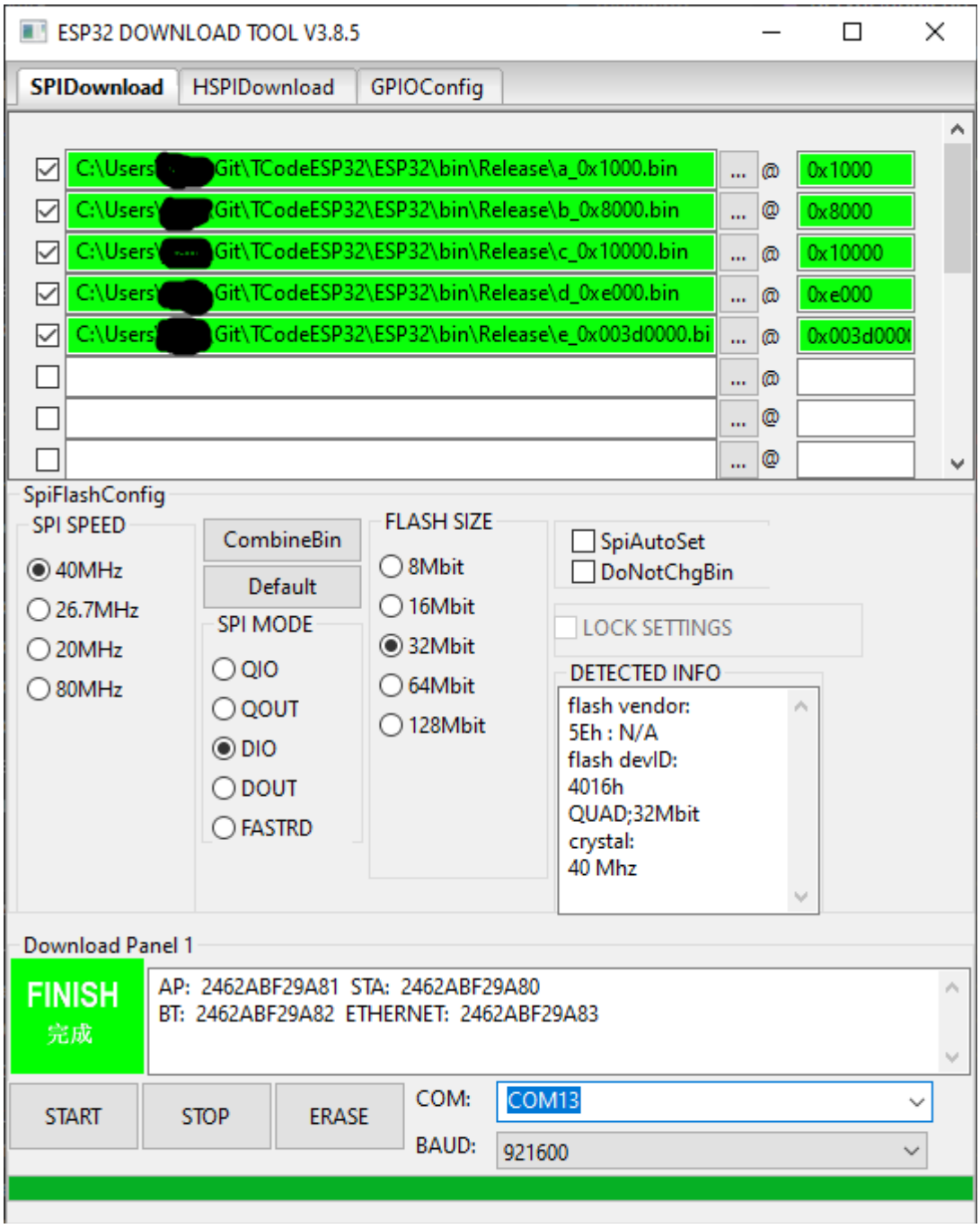
Head to https://www.espressif.com/en/products/socs/esp32/resources
Navigate to Tools and download “Flash download tools”



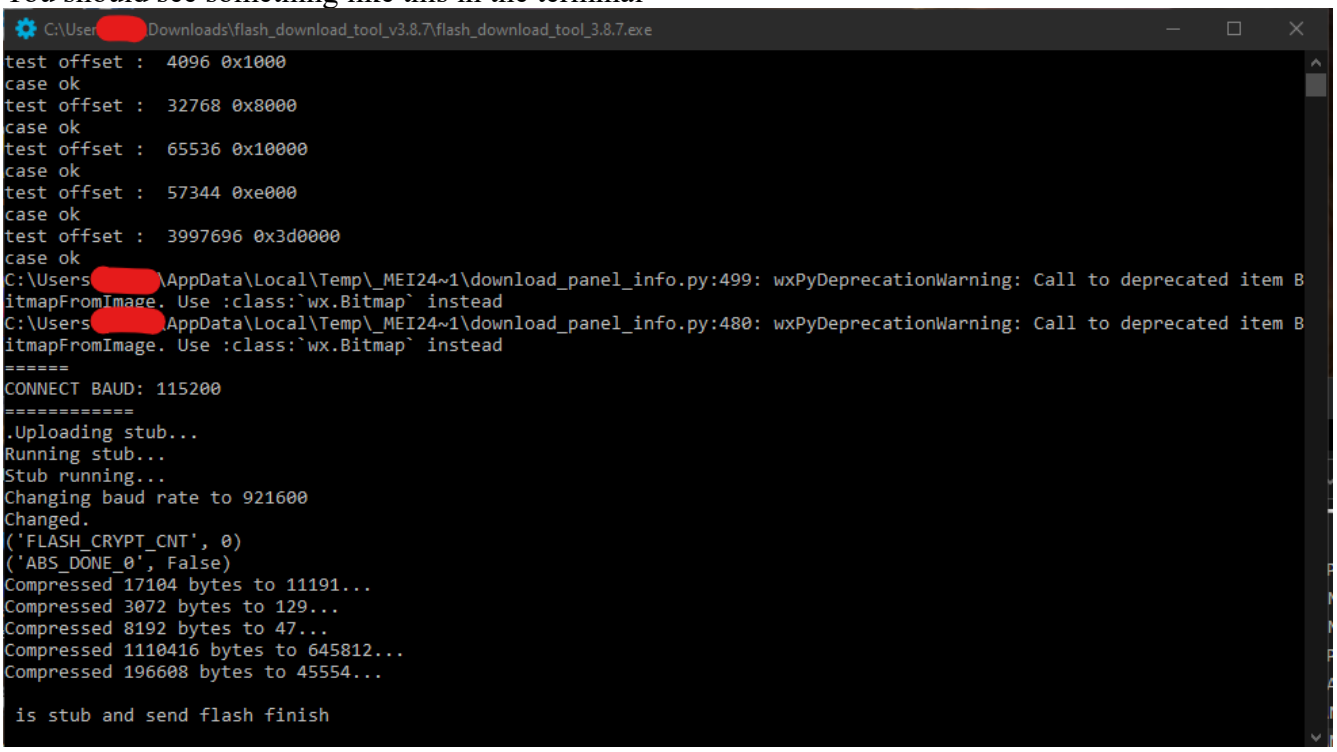
Extract “flash_download_tool_v3.8.7.zip” and start flash_download_tool_3.8.7.exe
Select ESP32 and click ok



Browse to the ESP32 files selecting each one as in the image below.
Enter the hex values to the right as in the image below
Check each checkbox next to the file path.
Select your COM port your ESP32 is on at the bottom of the window
Click start



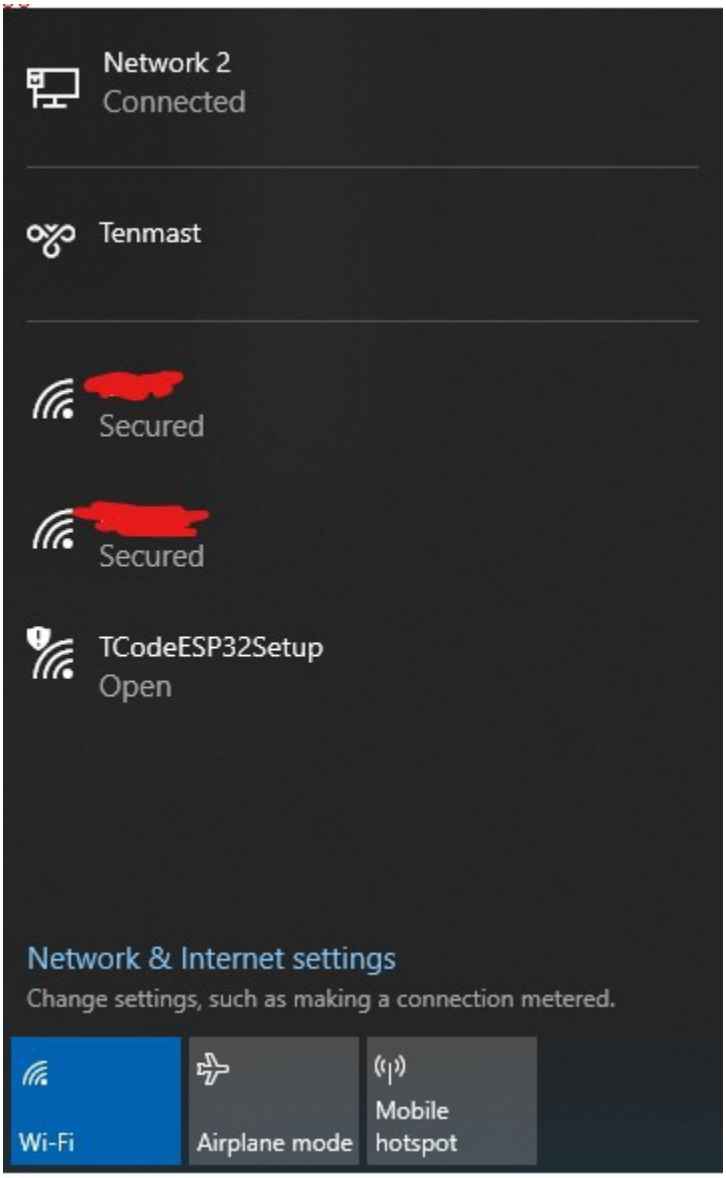
You should see something like this in the terminal



Now that your image is flashed time to configure the wifi

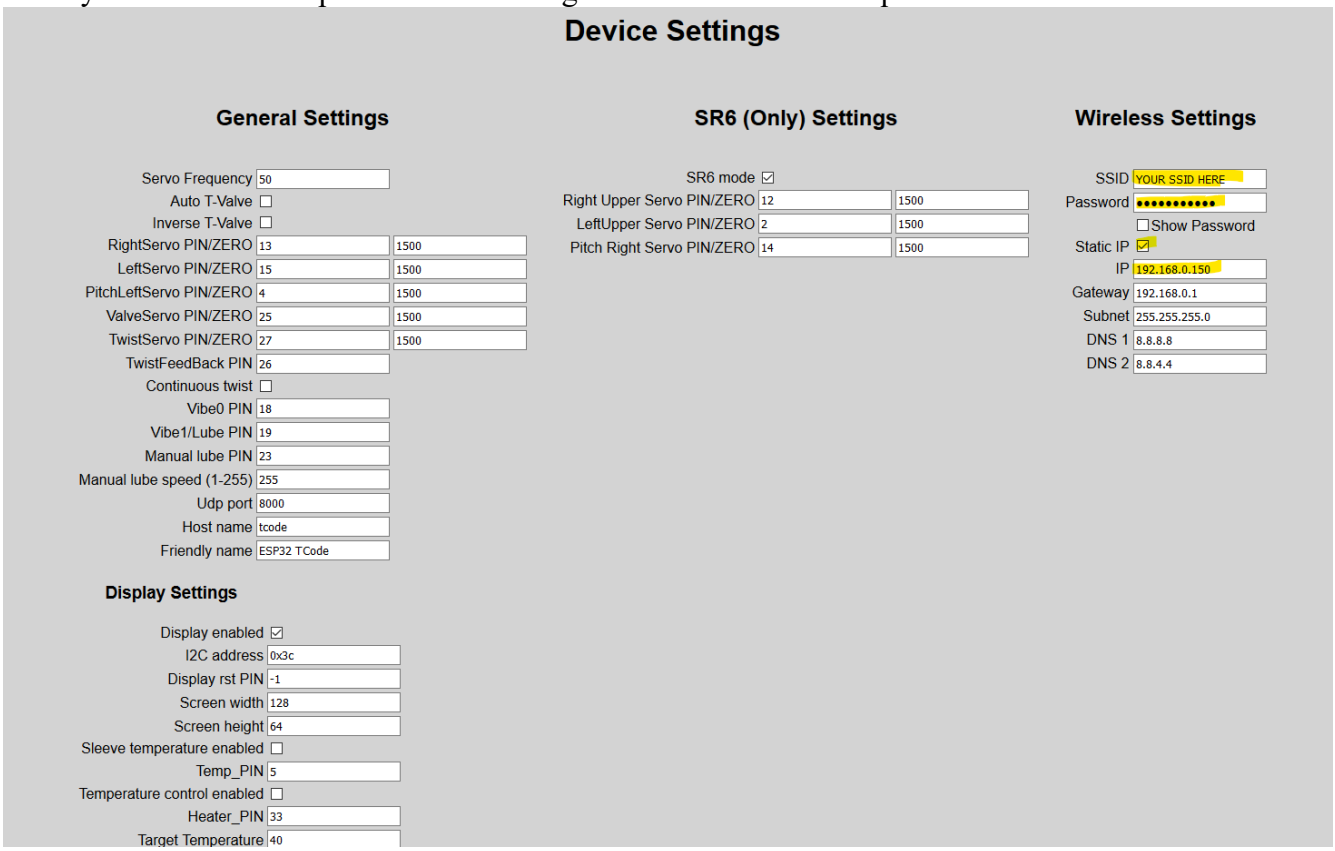
You can either configure with the Android app or via the AP mode instructions below.

Reboot the ESP32
Check your available wifi networks

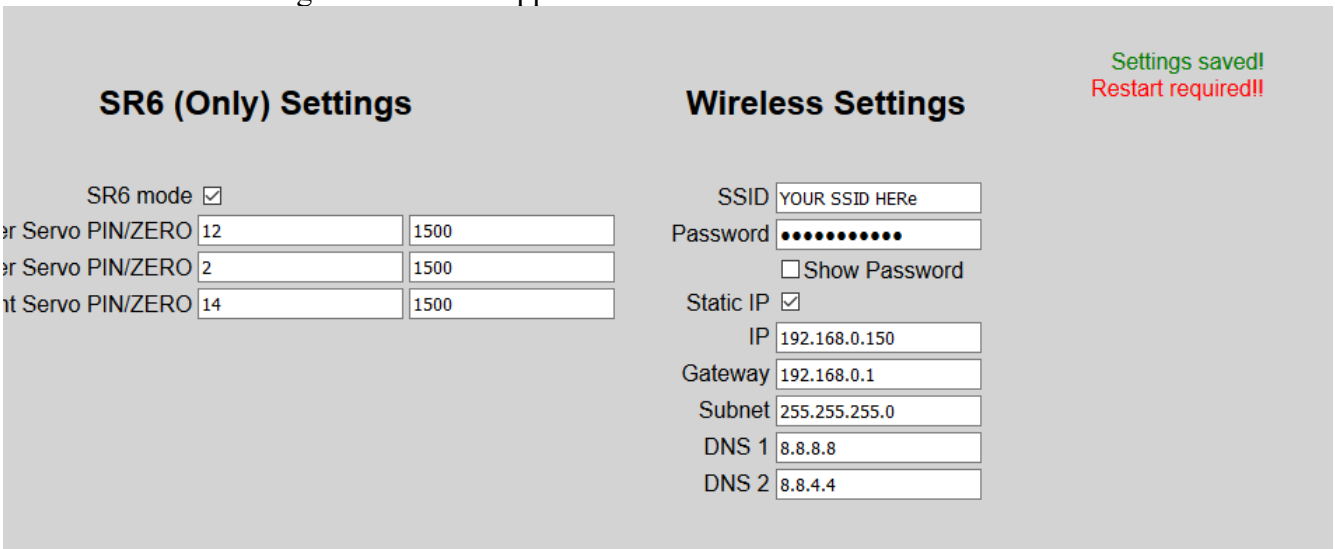


Connect to TcodeESP32Setup (leave connect automatically **unchecked**)
No password
Once connected (It can be slow be patient. About 30 secs or so)
Open your internet browser and navigate to 192.168.1.1

Enter your wifi ssid and password and change the network info if required



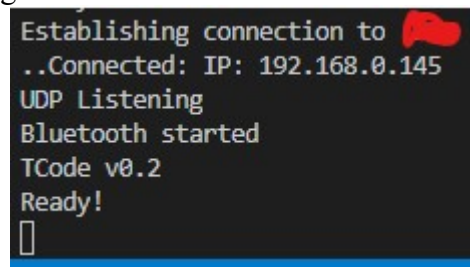
And wait for the Settings saved text to appear..



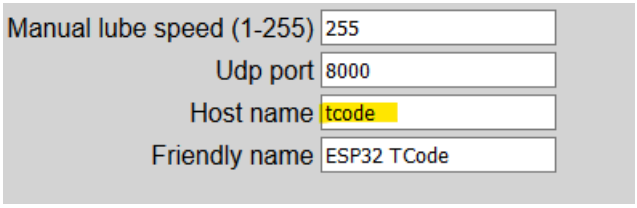
Click restart device or unplug and re-plug the usb powering the ESP32.

Your device should reboot and connect to the network.

You can verify this by either using serial monitor



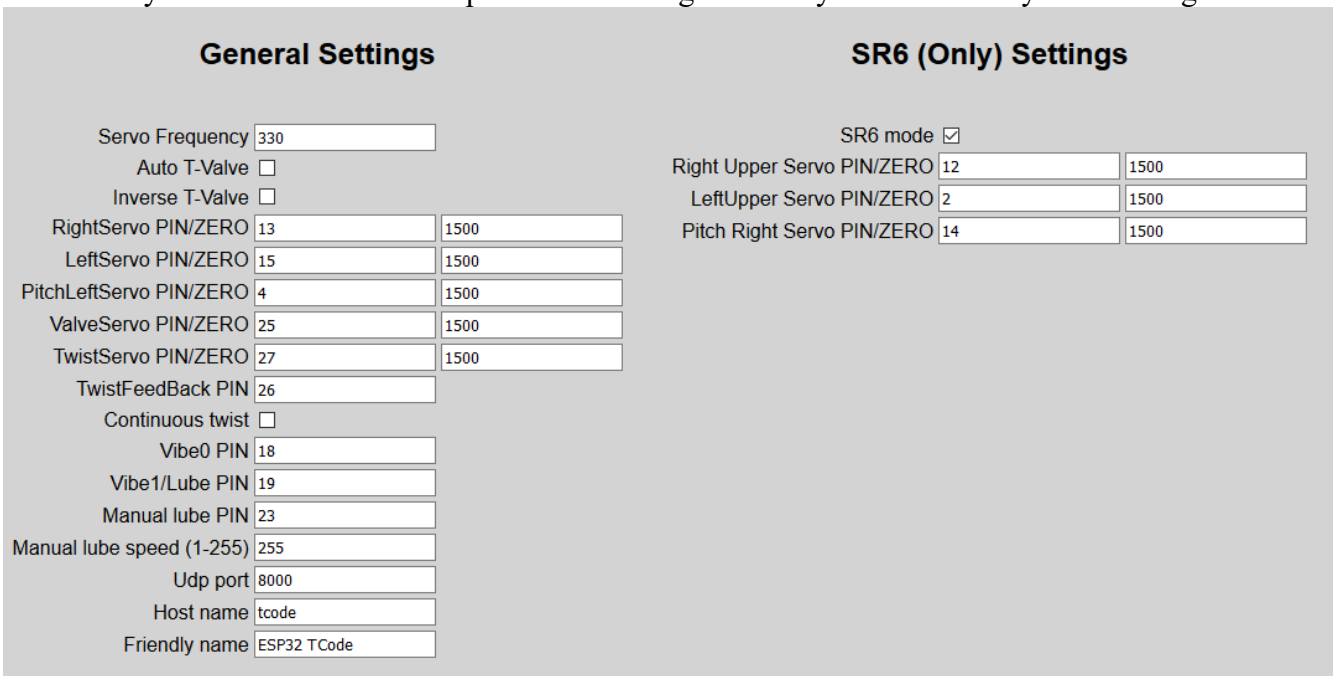
You should now be able to access the configuration page from or what ever you type into the Host name field on the configuration.

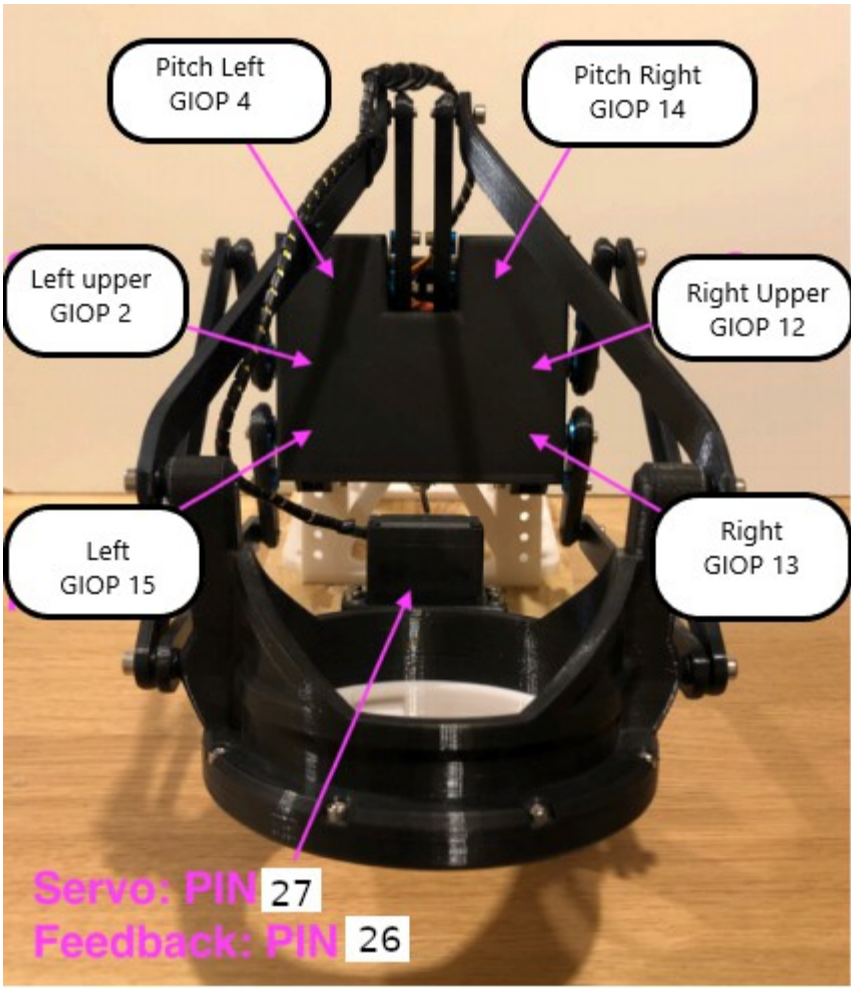


Or by logging into your router and looking for A Device named “TcodeESP32”

Once you have this IP address you can get into your machine settings via the web browser.

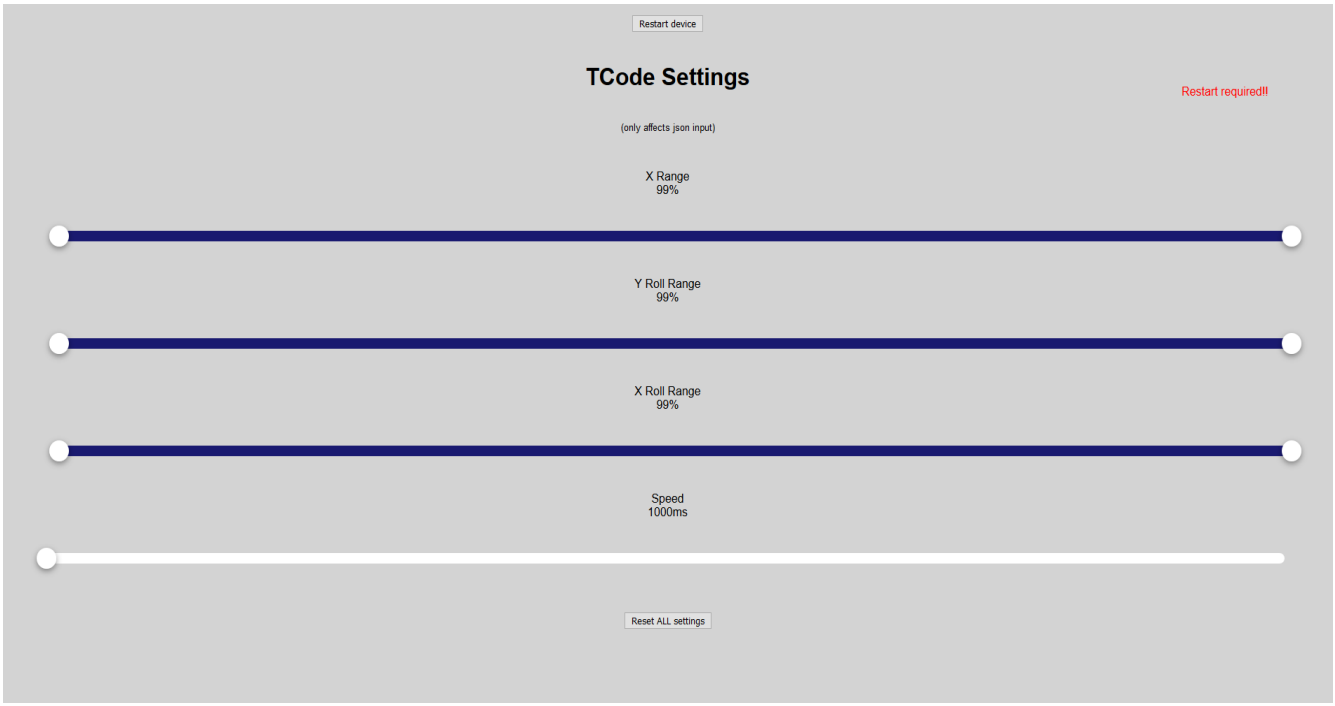
From here you can view the default pin out and change them if you know what you are doing.





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

The ranges are only for receiving data in json format.
The only thing that does this at the time of this writing is Tcode Remote Gamepad output over the network. This was done so the OSR user has control over the range and speed for safety concerns.



Enjoy your wireless device!

PS.. this release is in its early stages with missing features and bugs. if you find any issues please report them on Github.