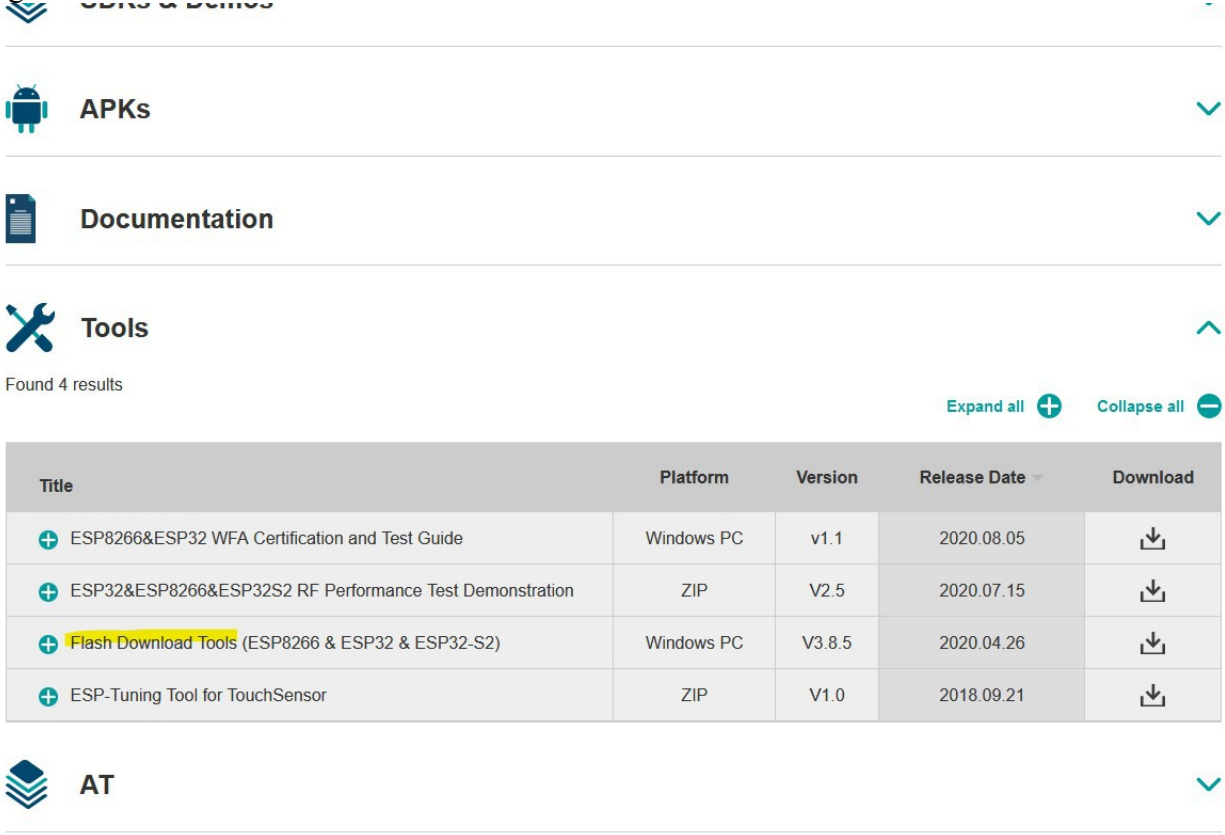
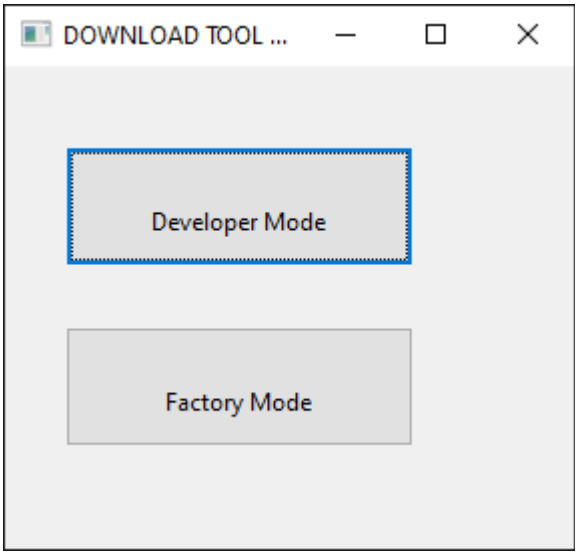
How to flash the binaries of the ESP32 edition of TCode controller

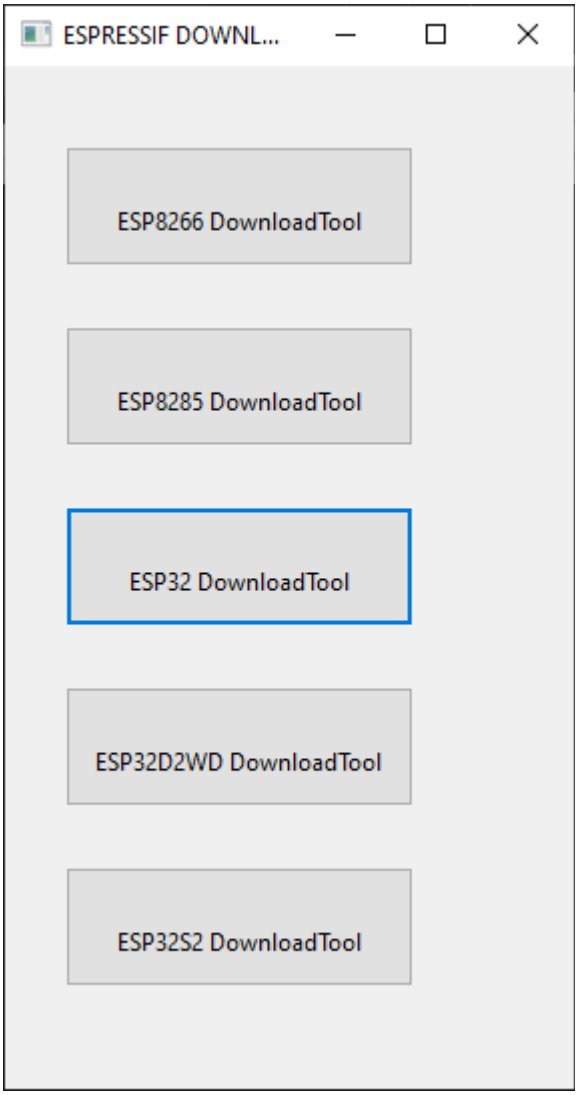
Head to https://www.espressif.com/en/products/socs/esp32/resources
Navigate to Tools and download “Flash download tools”



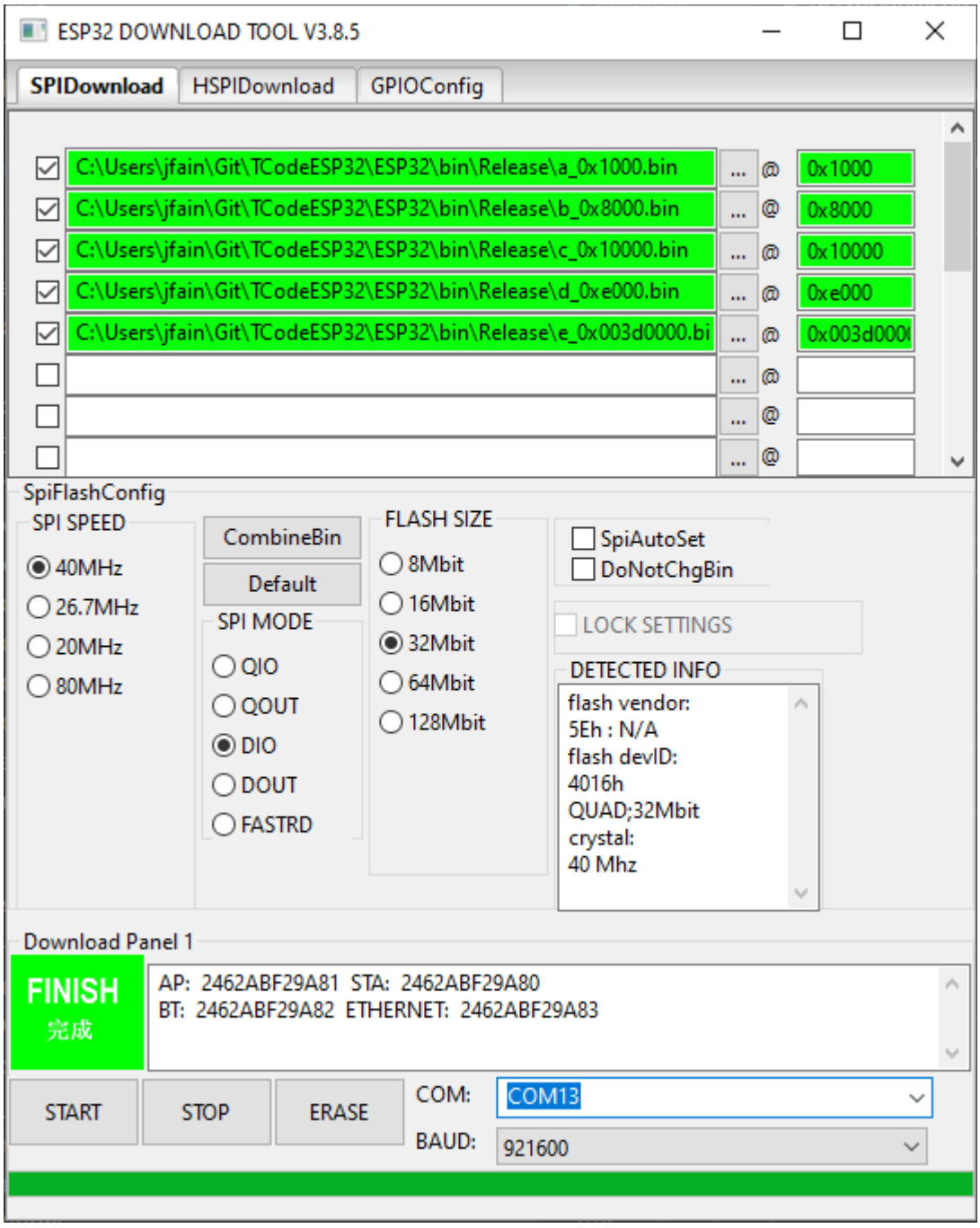
Extract “flash_download_tool_v3.8.5.zip” and start flash_download_tool_3.8.5.exe
Click “Developer mode”



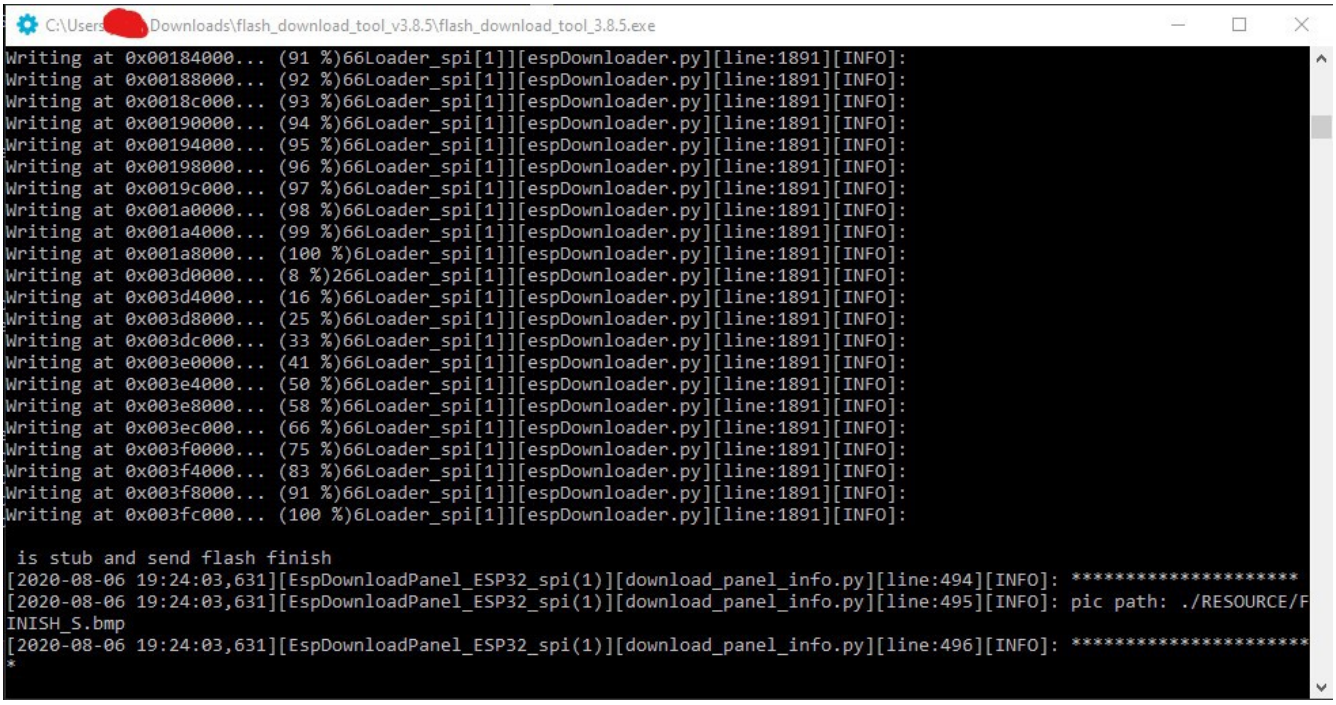
Click “ESP32 DownloadTool”



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

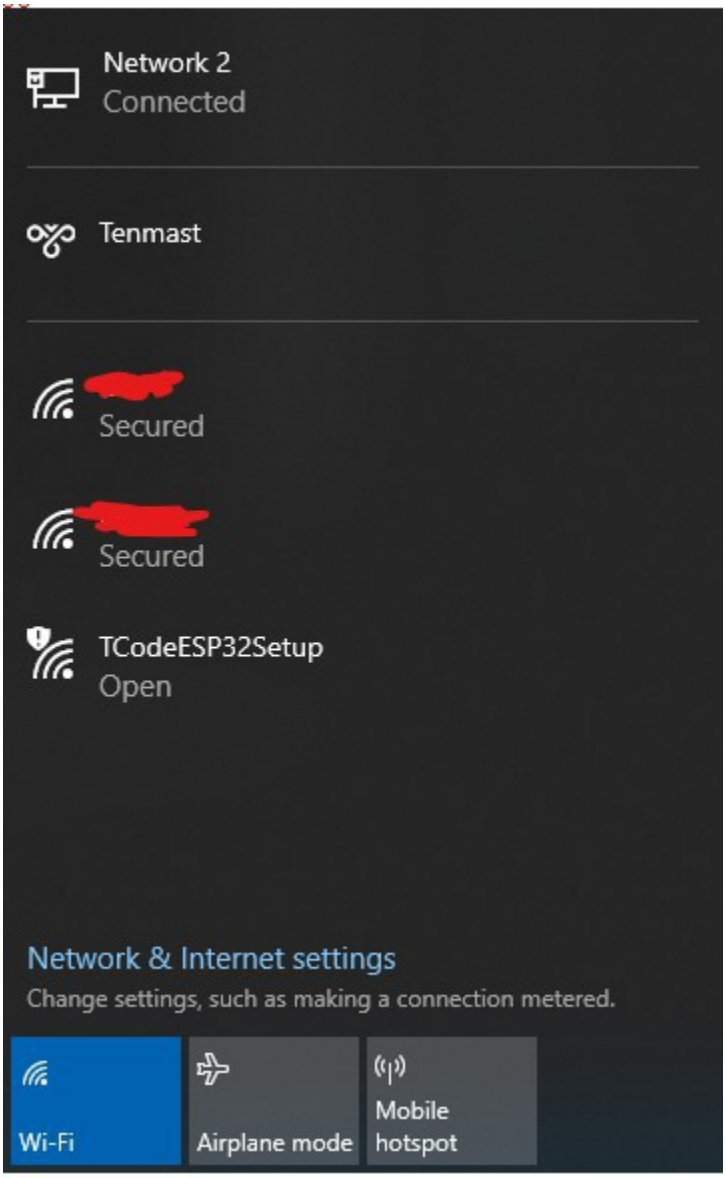

ESP32 DOWNLOAD TOOL V3.8.5
SPIDownload
HSPIDownload
GPIOConfig
C:\Users\jfain\Git\TCodeESP32\ESP32\bin\Release\a_0x1000.bin
@ 0x1000
C:\Users\jfain\Git\TCodeESP32\ESP32\bin\Release\b_0x8000.bin
@ 0x8000
C:\Users\jfain\Git\TCodeESP32\ESP32\bin\Release\c_0x10000.bin
@ 0x10000
C:\Users\jfain\Git\TCodeESP32\ESP32\bin\Release\d_0xe000.bin
@ 0xe000
C:\Users\jfain\Git\TCodeESP32\ESP32\bin\Release\e_0x003d0000.bi
@ 0x003d000
SpiFlashConfig
SPI SPEED
40MHz
26.7MHz
20MHz
80MHz
CombineBin
Default
SPI MODE
QIO
QOUT
DIO
DOUT
FASTRD
FLASH SIZE
8Mbit
16Mbit
32Mbit
64Mbit
128Mbit
SpiAutoSet
DoNotChgBin
LOCK SETTINGS
DETECTED INFO
flash vendor:
5Eh : N/A
flash devID:
4016h
QUAD;32Mbit
crystal:
40 Mhz
Download Panel 1
FINISH
完成
AP: 2462ABF29A81 STA: 2462ABF29A80
BT: 2462ABF29A82 ETHERNET: 2462ABF29A83
START
STOP
ERASE
COM:
COM13
BAUD:
921600

You should see this in the terminal



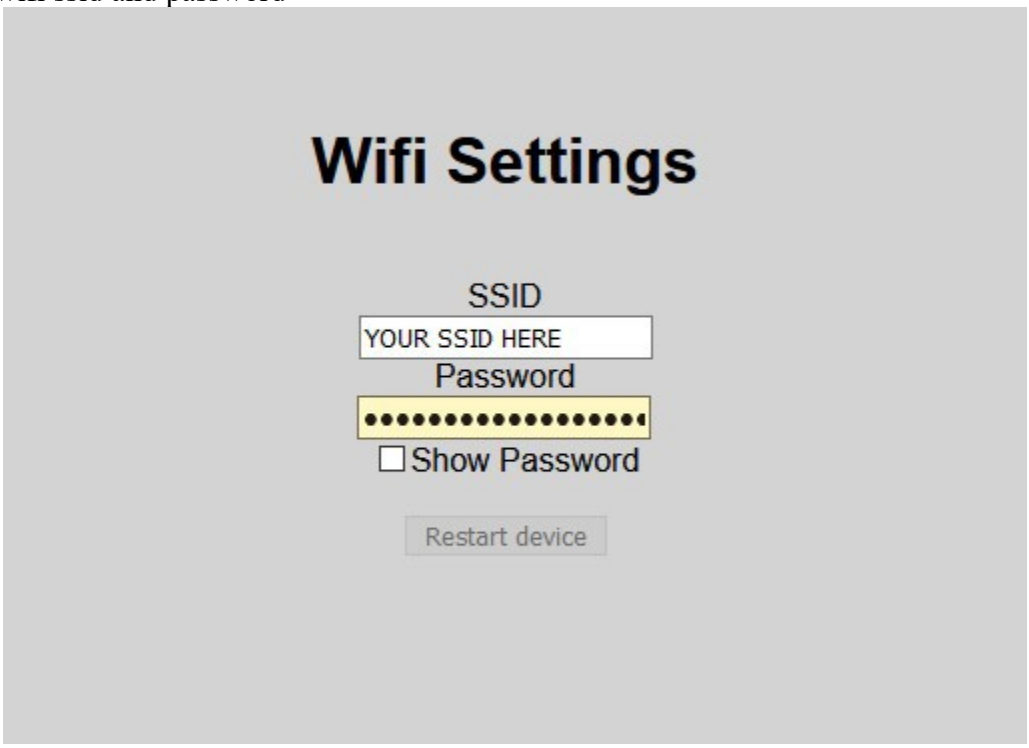
Now that your image is flashed time to configure the wifi

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

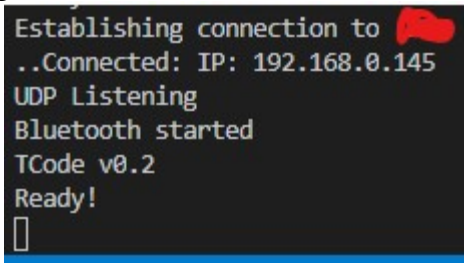


And wait for the Settings saved text to appear..

Click restart device or unplug and repluge the usb powering the ESP32.

Your device should reboot and connect to the network.

You can verify this by either using serial monitor

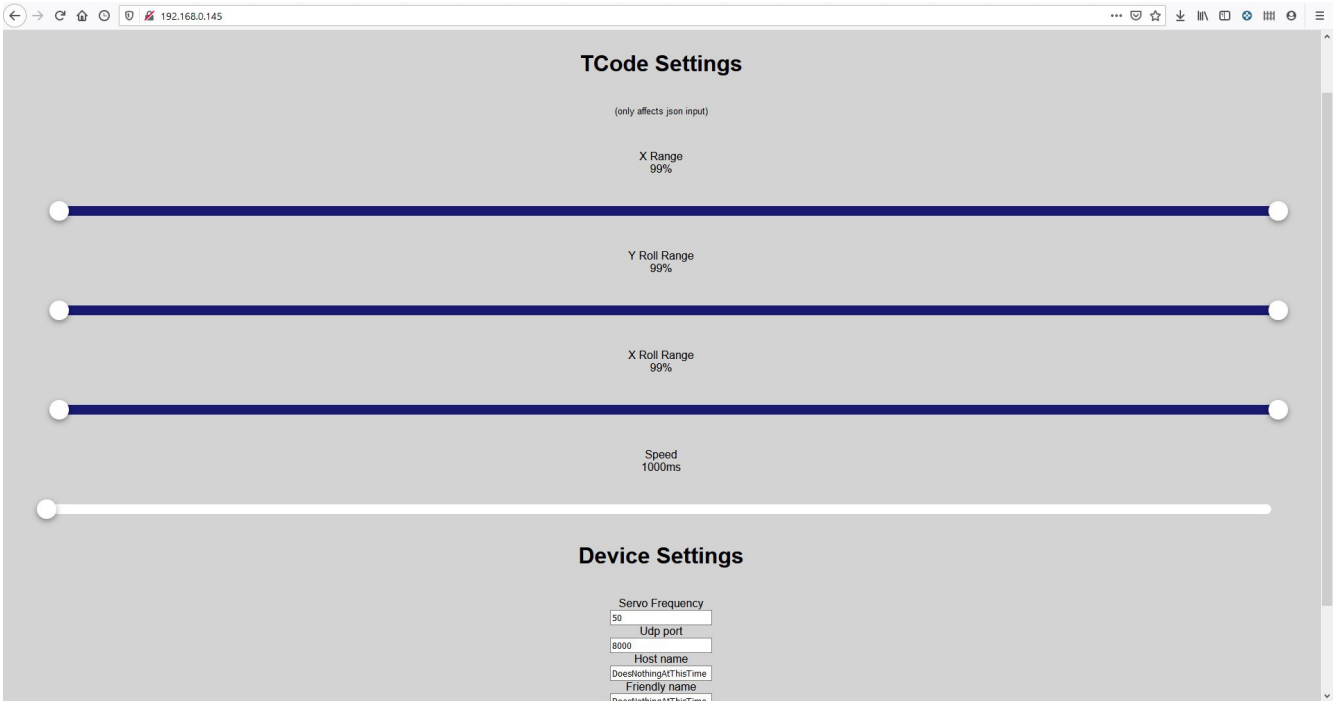


Or by logging into your router and looking for A Device named “TcodeESP32”

10	TCodeESP32	192.168.0.145

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

Theres not much in here at the moment. 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.



The most useful thing in here is the frequency and the udp port.

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.