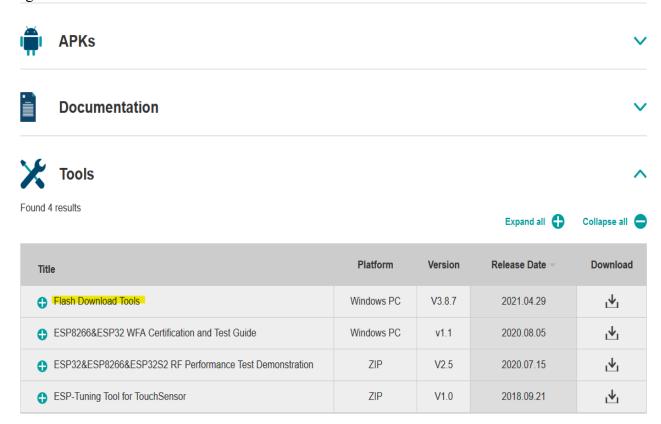
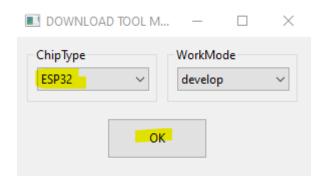
How to flash the binaries of the ESP32 edition of TCode controller

Head to https://www.espressif.com/en/products/socs/esp32/resources

Navigate to Tools and download "Flash download tools"

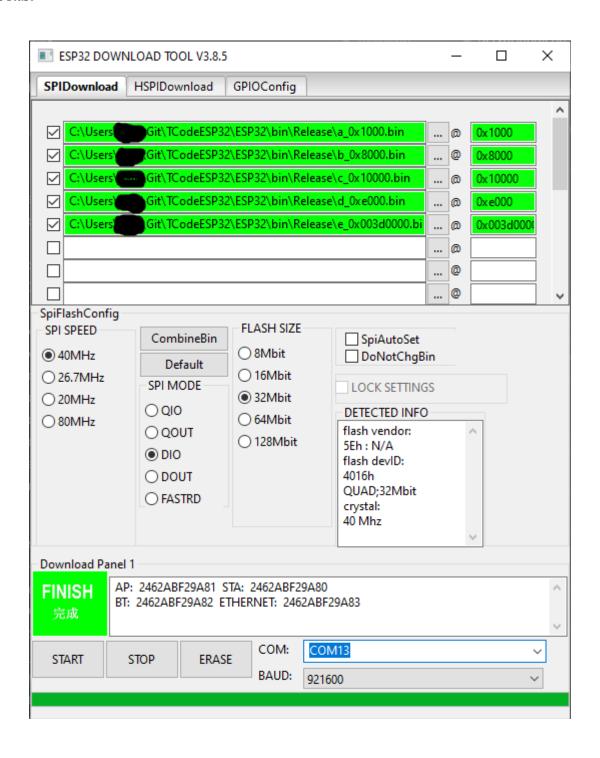


Extract "flash_download_tool_v3.8.7.zip" and start flash_download_tool_3.8.7.exe Select ESP32 and click ok



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

```
C:\User
test offset : 4096 0x1000
case ok
test offset : 32768 0x8000
case ok
test offset : 65536 0x10000
case ok
test offset : 57344 0xe000
case ok
test offset : 3997696 0x3d0000
case ok
AppData\Local\Temp\_MEI24~1\download_panel_info.py:499: wxPyDeprecationWarning: Call to deprecated item B itmapFromImage. Use :class:`wx.Bitmap` instead
C:\Users AppData\Local\Temp\_MEI24~1\download_panel_info.py:480: wxPyDeprecationWarning: Call to deprecated item B itmapFromImage. Use :class:`wx.Bitmap` instead
CONNECT BAUD: 115200
.Uploading stub...
Running stub...
Stub running...
Changing baud rate to 921600
Changed.

('FLASH_CRYPT_CNT', 0)

('ABS_DONE_0', False)

Compressed 17104 bytes to 11191...

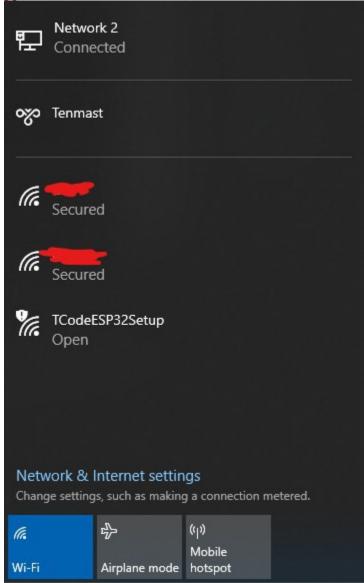
Compressed 3072 bytes to 129...

Compressed 4106608 bytes to 645812...
 Compressed 196608 bytes to 45554...
  is stub and send flash finish
```

Now that your image is flashed time to configure the wifi

Reboot the ESP32

Check your available wifi networks



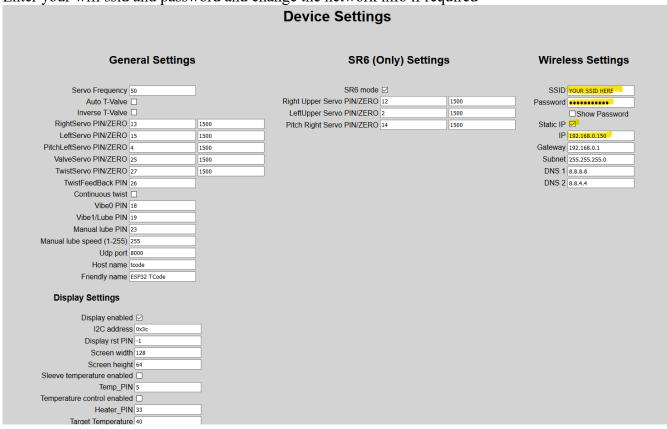
Connect to TcodeESP32Setup (leave connect automatically **unchecked**) No password

Once connected (It can be slow be patient. About 30 secs or so)

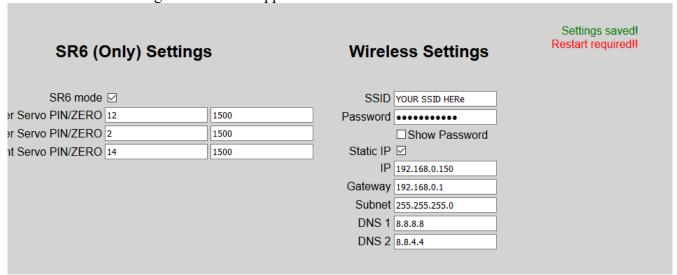
Open your internet browser and navigate to 192.168.1.1



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



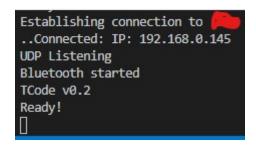
And wait for the Settings saved text to appear..



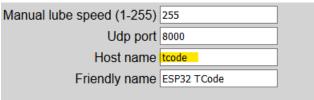
Click restart device or unplug and re-plug the usb powering the ESP32.

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.

Gen	eral Settings		SR6 (0	Only) Settings	8
Servo Frequency	330		SR6 mode	\square	
Auto T-Valve			Right Upper Servo PIN/ZERO	12	1500
Inverse T-Valve			LeftUpper Servo PIN/ZERO	2	1500
RightServo PIN/ZERO	13	1500	Pitch Right Servo PIN/ZERO	14	1500
LeftServo PIN/ZERO	15	1500			
PitchLeftServo PIN/ZERO	4	1500			
ValveServo PIN/ZERO	25	1500			
TwistServo PIN/ZERO	27	1500			
TwistFeedBack PIN	26				
Continuous twist					
Vibe0 PIN	18				
Vibe1/Lube PIN	19				
Manual lube PIN	23				
Manual lube speed (1-255)	255				
Udp port	8000				
Host name	tcode				
Friendly name	ESP32 TCode				

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.