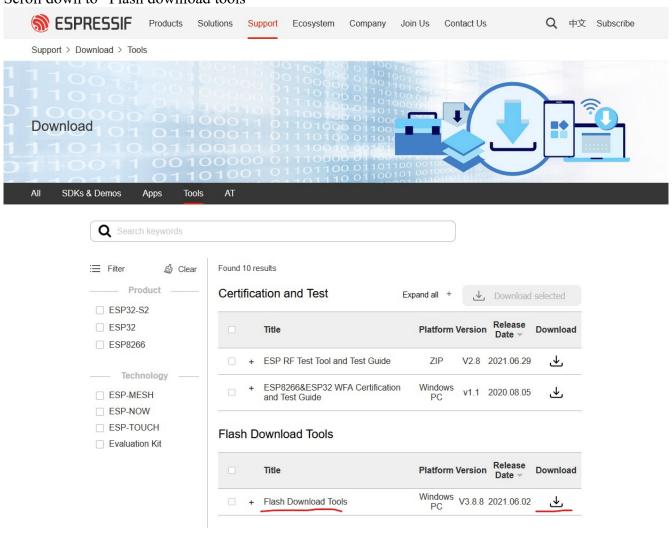
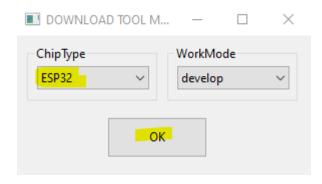
How to flash the binaries of the ESP32 edition of TCode controller

Head to https://www.espressif.com/en/support/download/other-tools Scroll down to "Flash download tools"

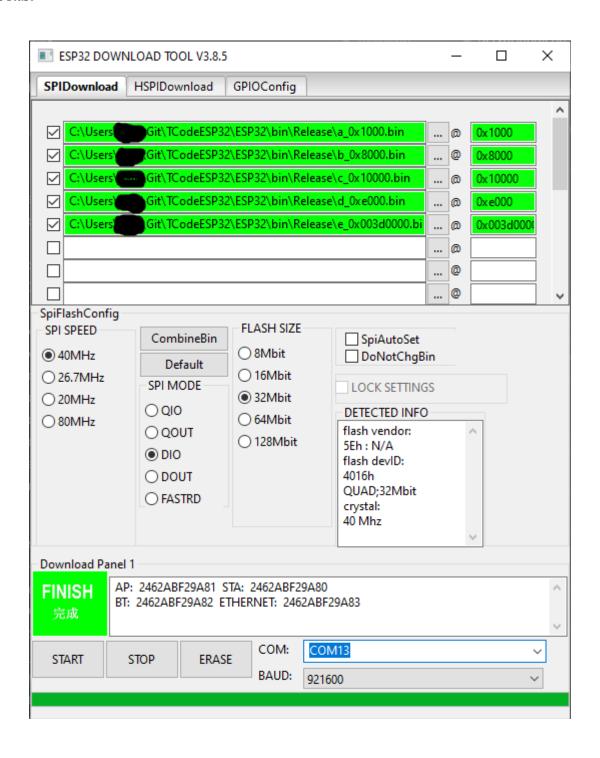


Extract "flash_download_tool_vx.x.x.zip" and start flash_download_tool_x.x.x.exe Select ESP32 and click ok



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 IMPORTANT! The ESP32 we are using currently is ONLY compatible with 2.4ghz 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

	Ť		Device Setti	ings		
General Settings			SR6 (Only) Settings		s	Wireless Settings
Servo Frequency 5	60		SR6 n	node ☑		SSID YOUR SSID HERE
Auto T-Valve			Right Upper Servo PIN/ZI	ERO 12	1500	Password ••••••
Inverse T-Valve			LeftUpper Servo PIN/ZI	ERO 2	1500	☐Show Password
RightServo PIN/ZERO 1		1500	Pitch Right Servo PIN/ZI	ERO 14	1500	Static IP 🗹
LeftServo PIN/ZERO 1		1500				IP 192.168.0.150
PitchLeftServo PIN/ZERO 4		1500				Gateway 192.168.0.1
ValveServo PIN/ZERO 2		1500				Subnet 255.255.255.0
TwistServo PIN/ZERO 2	7	1500				DNS 1 8.8.8.8
TwistFeedBack PIN 2	6					DNS 2 8.8.4.4
Continuous twist						
Vibe0 PIN 1	8					
Vibe1/Lube PIN 1	9					
Manual lube PIN 2	3					
Manual lube speed (1-255) 2	55					
Udp port 8	000					
Host name to	code					
Friendly name E	SP32 TCode					
Display Settings						
Display enabled						
I2C address	0x3c					
Display rst PIN	-1					
Screen width	128					
Screen height	64					
Sleeve temperature enabled						
Temp_PIN	5					
Temperature control enabled						
Heater_PIN						
Target Temperature	40					

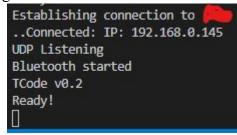
And wait for the Settings saved text to appear..

SR6 (Only) Set	tings	Wireless Settings	Settings saved! Restart required!!
SR6 mode ☑		SSID YOUR SSID HERe	
er Servo PIN/ZERO 12	1500	Password ••••••	
er Servo PIN/ZERO 2	1500	☐ Show Password	
nt Servo PIN/ZERO 14	1500	Static IP ☑	
		IP 192.168.0.150	
		Gateway 192.168.0.1	
		Subnet 255.255.255.0	
		DNS 1 8.8.8.8	
		DNS 2 8.8.4.4	

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.

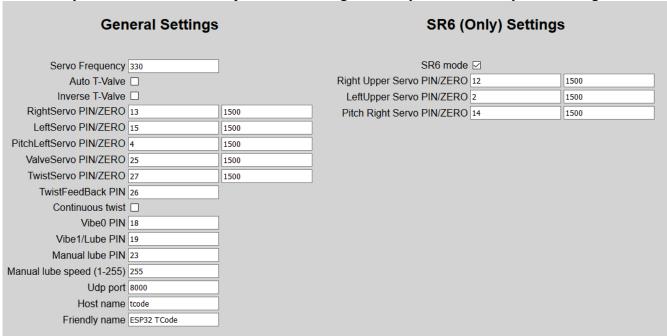
Manual lube speed (1-255)	255
Udp port	8000
Host name	tcode
Friendly name	ESP32 TCode

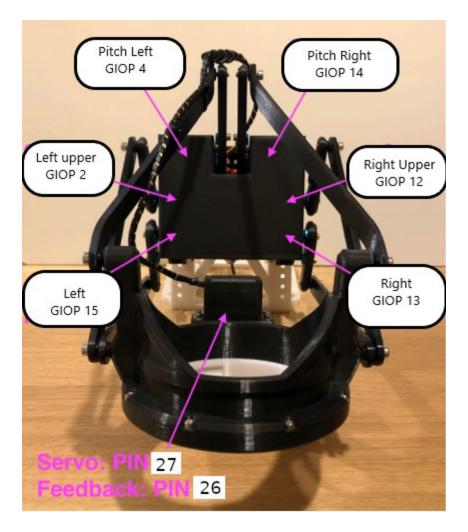
Or by logging into your router and looking for A Device named "TcodeESP32"



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.