

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

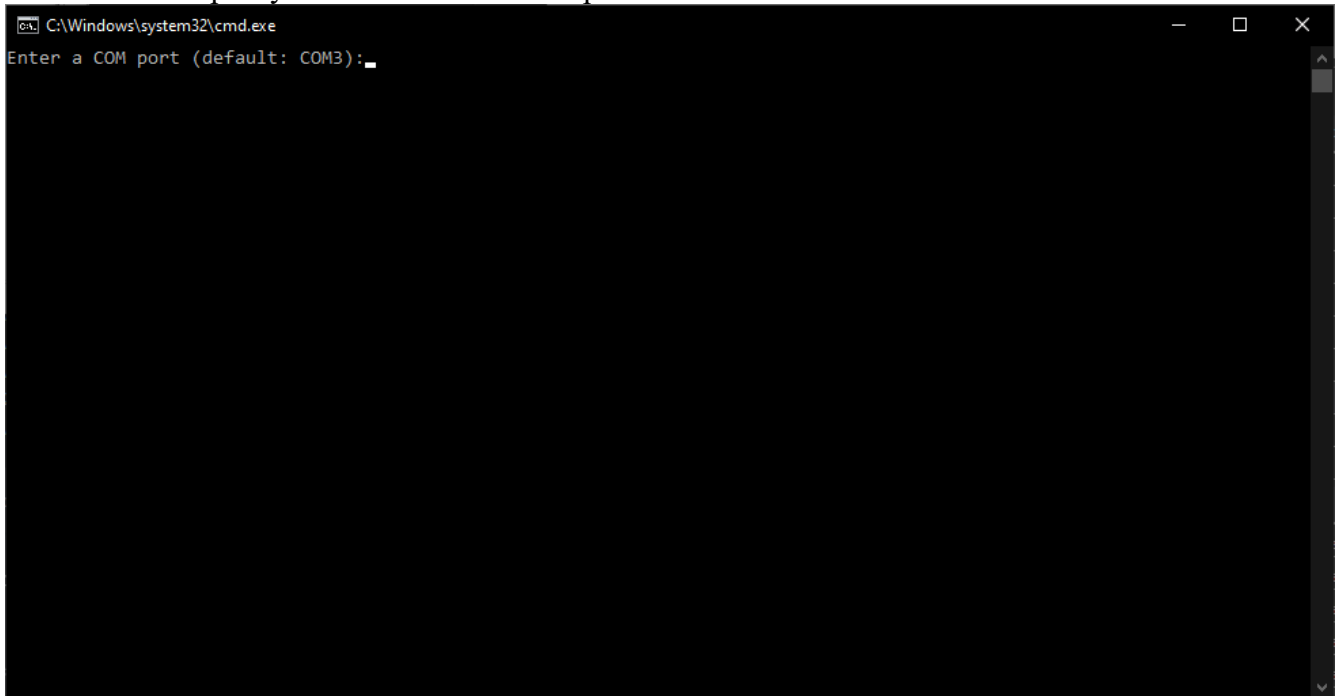
Extract the zip archive.

(Linux/Mac users [click here](#) viewing the the batch content should be simple enough to extract the command needed)

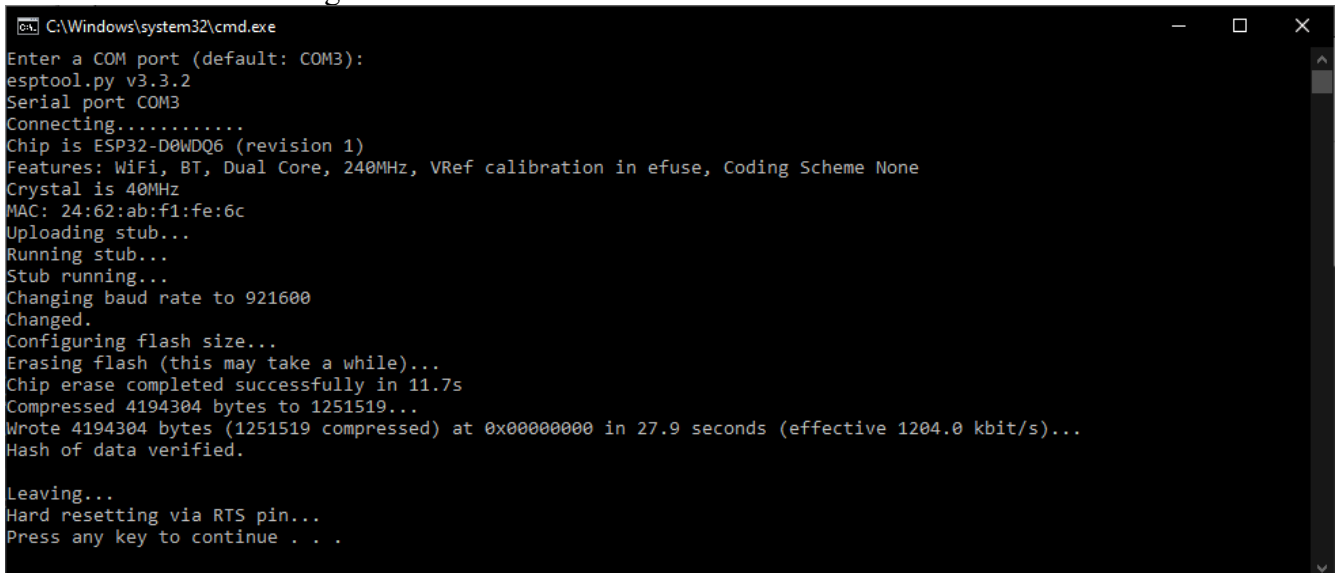
(Windows users)

Run “flash.bat”

Enter the COM port your ESP32 is on. Example: COM12



You should see something like this in the terminal

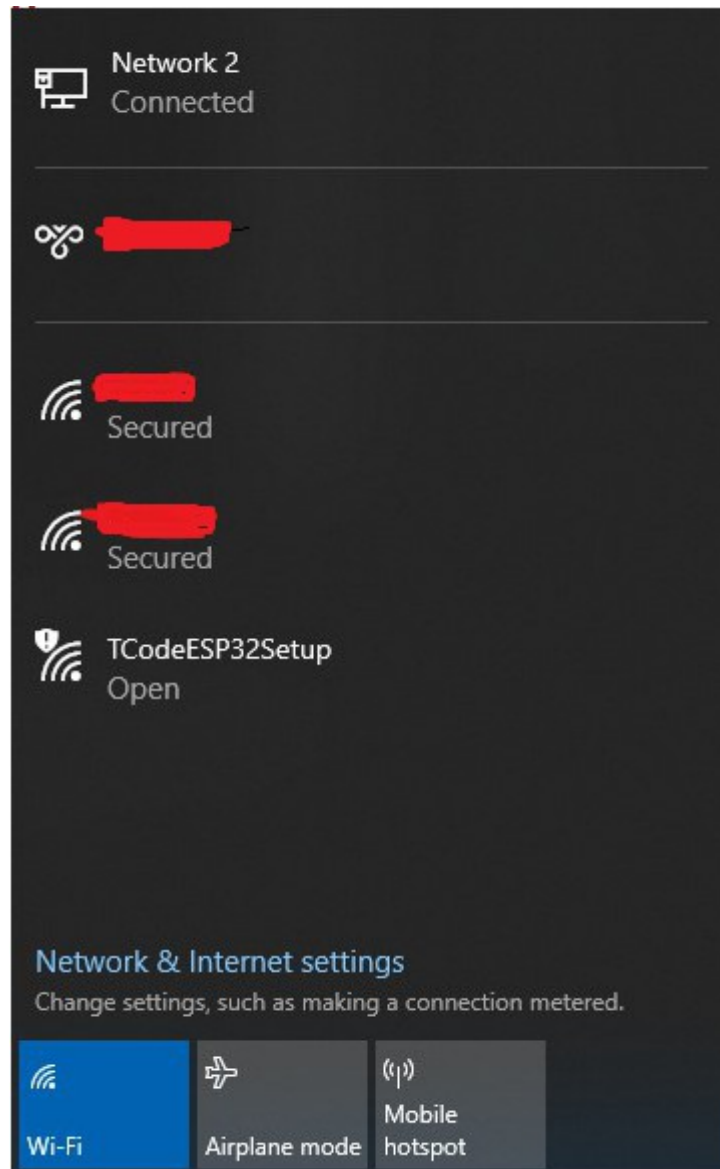


Now that your image is flashed time to configure the wifi if you wish to do so
IMPORTANT! The ESP32 we are using currently is ONLY compatible with 2.4ghz WiFi

You can either configure 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



Device Settings

ESP32 v0.251b

Wireless

SSID (2.4ghz only)

Password

☐ Show Password

Static IP ☐

General

TCode version

SR6 mode ☒

Servo Frequency

Pitch Frequency is different ☐

Valve Frequency

Twist Frequency

	Servo	PIN	ZERO
Right	<input type="text" value="13"/>	<input type="text" value="1500"/>	
Left	<input type="text" value="15"/>	<input type="text" value="1500"/>	
Pitch	<input type="text" value="4"/>	<input type="text" value="1500"/>	
Valve	<input type="text" value="25"/>	<input type="text" value="1500"/>	
Twist	<input type="text" value="27"/>	<input type="text" value="1500"/>	
Vibe 0	<input type="text" value="18"/>		
Lube/Vibe 1	<input type="text" value="19"/>		
Manual lube	<input type="text" value="23"/>		

PWM available on: 2,4,5,12-19,21-23,25-27,32,33

Debug

Last reboot reason

SR6

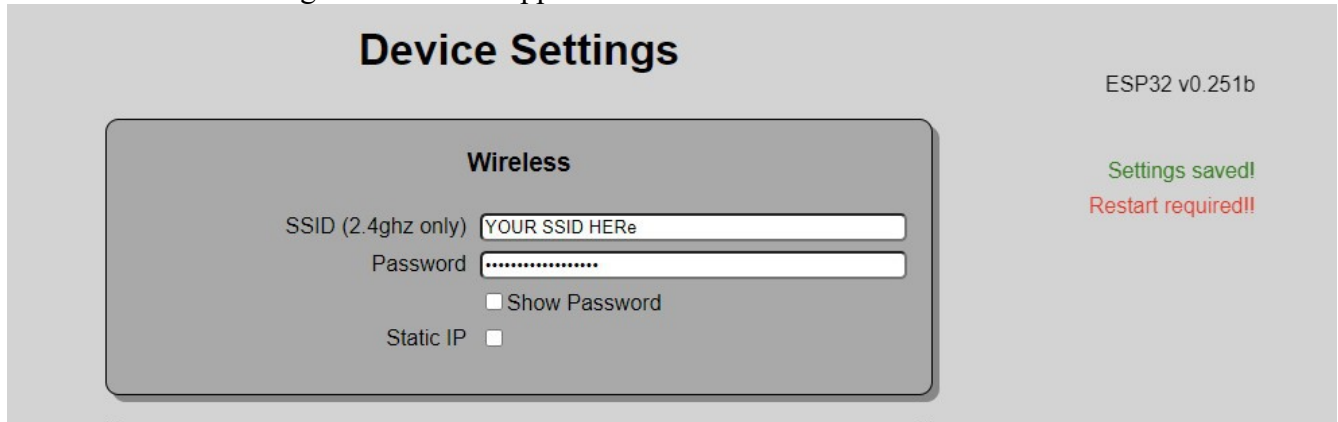
	Servo	PIN	ZERO
Right upper	<input type="text" value="12"/>	<input type="text" value="1500"/>	
Left upper	<input type="text" value="2"/>	<input type="text" value="1500"/>	
Pitch right	<input type="text" value="14"/>	<input type="text" value="1500"/>	

PWM available on: 2,4,5,12-19,21-23,25-27,32,33

Other

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

And wait for the Settings saved text to appear..



The screenshot displays the 'Device Settings' web interface for an ESP32 v0.251b. The main heading is 'Device Settings'. On the right side, the version 'ESP32 v0.251b' is shown. Below the heading, there is a 'Wireless' configuration section. This section contains two input fields: 'SSID (2.4ghz only)' with the placeholder text 'YOUR SSID HERE' and 'Password' with masked characters. Below the password field is a checkbox labeled 'Show Password'. At the bottom of the section is a 'Static IP' checkbox. To the right of the configuration box, there are two status messages: 'Settings saved!' in green and 'Restart required!!' in red.

Device Settings

ESP32 v0.251b

Wireless

SSID (2.4ghz only)

Password

☐ Show Password

Static IP ☐

Settings saved!
Restart required!!

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

```
PROBLEMS  OUTPUT  TERMINAL  GITLENS  DEBUG CONSOLE

SPI_FAST_FL
INFO: ESP32 Chip model = ESP32-D0WDQ6 Rev 1
INFO: This chip has 2 cores
INFO: Chip ID: 15859308
INFO: Read Settings: /userSettings.json
INFO: Last reset reason: Reset due to power-on event
INFO: Version: ESP32 v0.251b
INFO: Setting up wifi
INFO: Station Mode Started
INFO: Mac: 24:62:AB:F1:FE:6C
INFO: Establishing connection to hex
WARNING: Disconnected from station, attempting reconnection
INFO: Reason: 0
INFO: Unknown reason 0
INFO: Connected to 
INFO: IP Address: 192.168.0.95
.INFO: Connected IP: 192.168.0.95
INFO: Starting UDP
INFO: UDP Listening
INFO: Starting web server on port: 80
INFO: Setting up webSocket
hostName: tcode
friendlyName: ESP32 TCode
ESP32 v0.251b
TCode v0.3
Ready!
█
```

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

10	TCodeESP32		192.168.0.145
----	------------	---	---------------

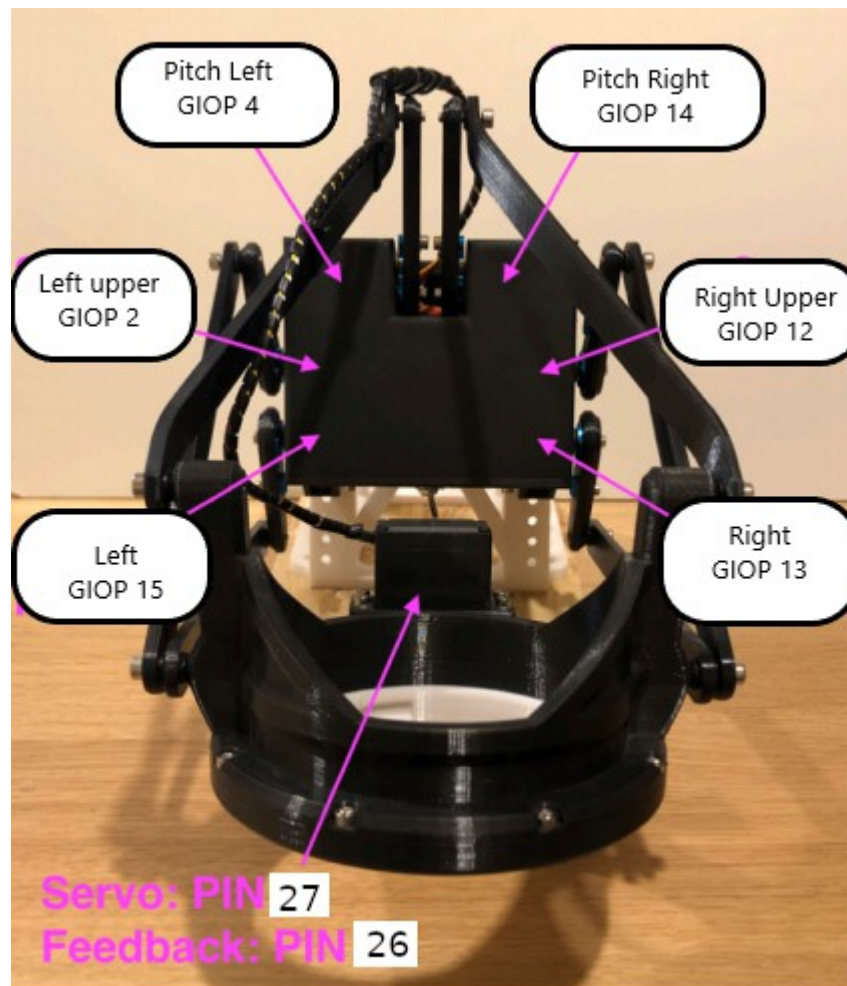
You should now be able to access the configuration page from or what ever you type into the Host

Manual lube speed (1-255)	<input type="text" value="255"/>
Udp port	<input type="text" value="8000"/>
Host name	<input type="text" value="tcode"/>
Friendly name	<input type="text" value="ESP32 TCode"/>

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”**

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.