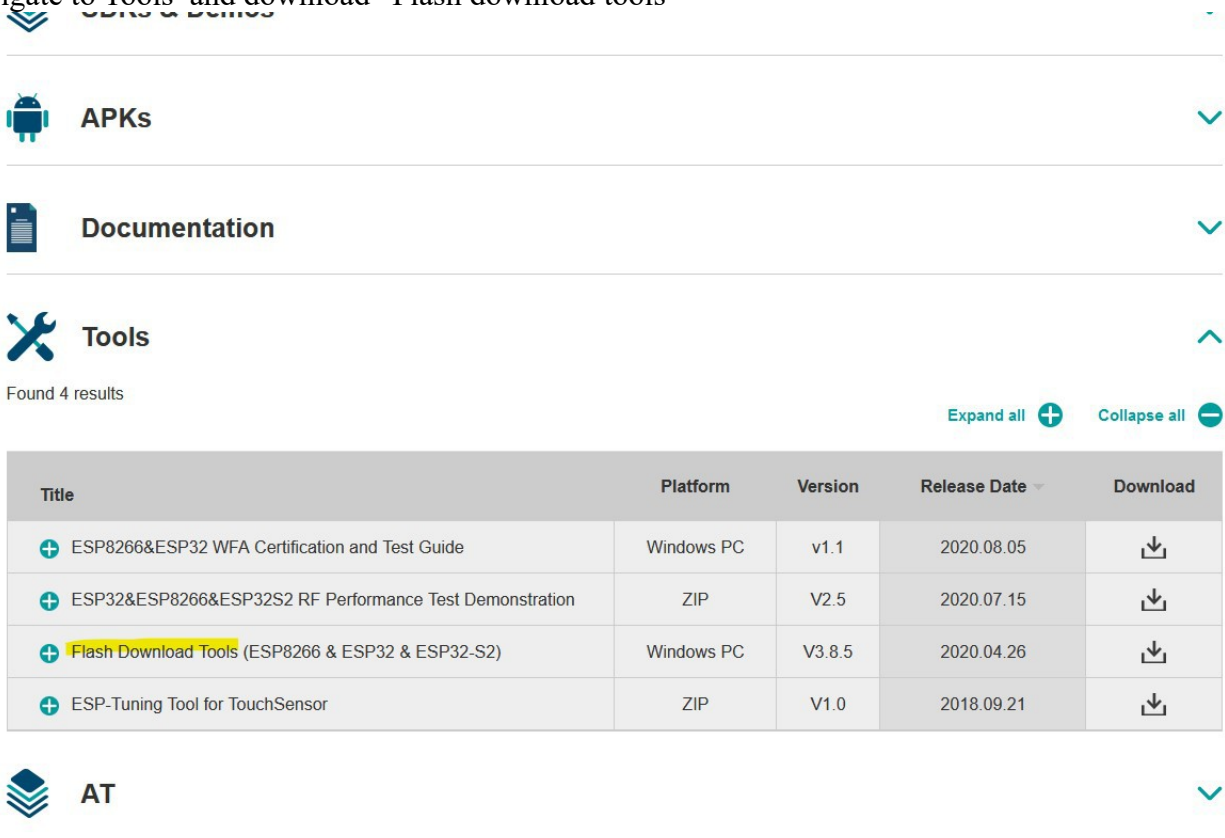


How to flash the binaries of the ESP32 edition of TCode controller

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

Navigate to Tools and download “Flash download tools”



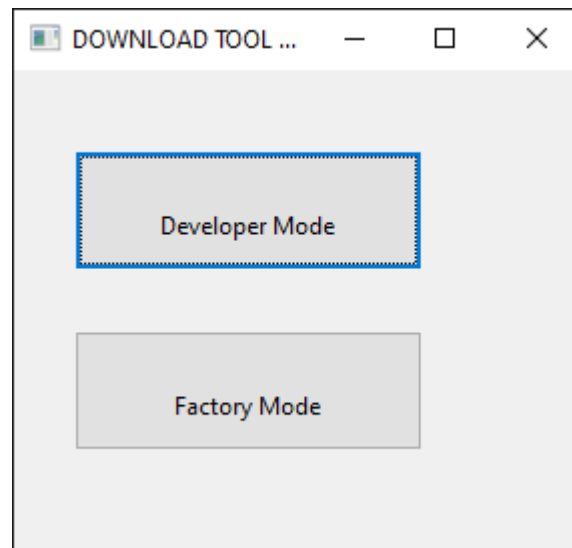
Found 4 results

Expand all + Collapse all -

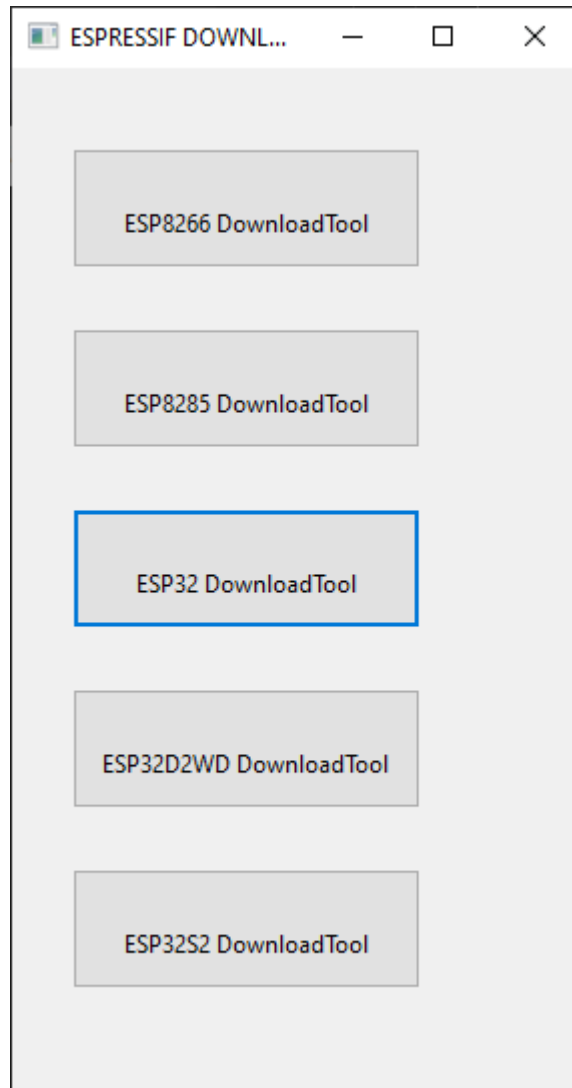
Title	Platform	Version	Release Date	Download
+ ESP8266&ESP32 WFA Certification and Test Guide	Windows PC	v1.1	2020.08.05	
+ ESP32&ESP8266&ESP32S2 RF Performance Test Demonstration	ZIP	V2.5	2020.07.15	
+ Flash Download Tools (ESP8266 & ESP32 & ESP32-S2)	Windows PC	V3.8.5	2020.04.26	
+ ESP-Tuning Tool for TouchSensor	ZIP	V1.0	2018.09.21	

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

...

@

0x003d0000

☐

...

@

☐

...

@

☐

...

@

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

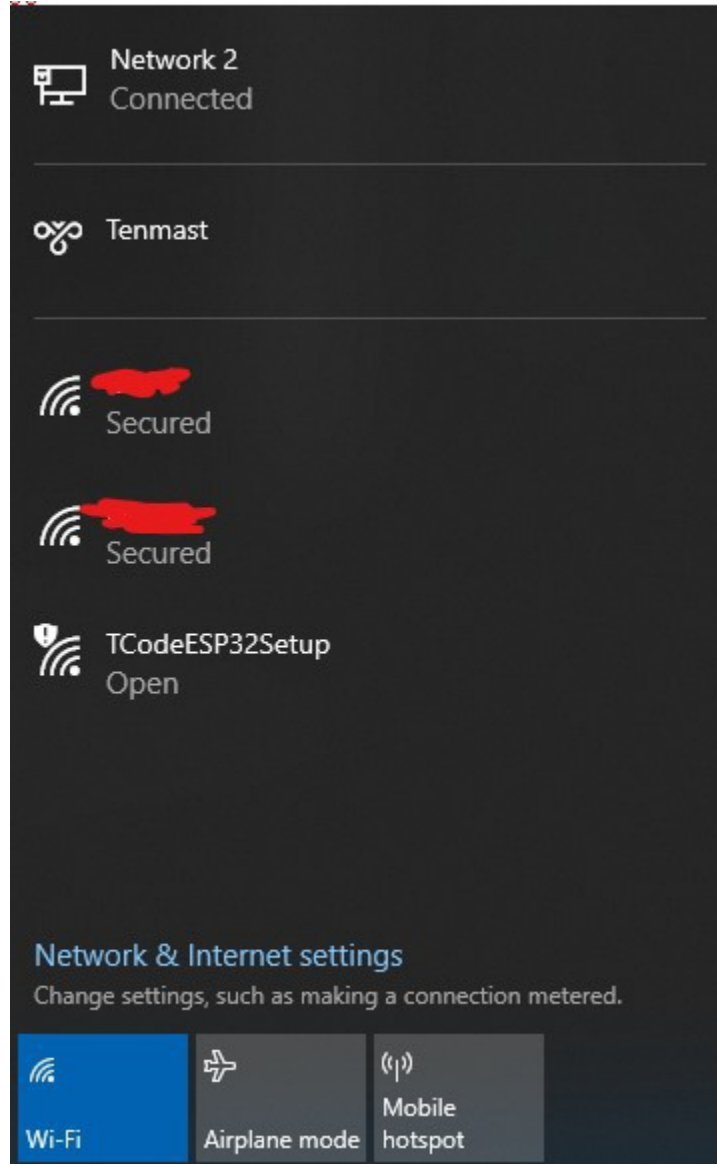
You should see this in the terminal

```
C:\Users\Downloads\flash_download_tool_v3.8.5\flash_download_tool_3.8.5.exe
Writing at 0x00184000... (91 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x00188000... (92 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x0018c000... (93 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x00190000... (94 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x00194000... (95 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x00198000... (96 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x0019c000... (97 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x001a0000... (98 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x001a4000... (99 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x001a8000... (100 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003d0000... (8 %)266Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003d4000... (16 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003d8000... (25 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003dc000... (33 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003e0000... (41 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003e4000... (50 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003e8000... (58 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003ec000... (66 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003f0000... (75 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003f4000... (83 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003f8000... (91 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:
Writing at 0x003fc000... (100 %)66Loader_spi[1]][espDownloader.py][line:1891][INFO]:

is stub and send flash finish
[2020-08-06 19:24:03,631][EspDownloadPanel_ESP32_spi(1)][download_panel_info.py][line:494][INFO]: *****
[2020-08-06 19:24:03,631][EspDownloadPanel_ESP32_spi(1)][download_panel_info.py][line:495][INFO]: pic path: ./RESOURCE/F
INISH_S.bmp
[2020-08-06 19:24:03,631][EspDownloadPanel_ESP32_spi(1)][download_panel_info.py][line:496][INFO]: *****
*
```

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

Wifi Settings

SSID

YOUR SSID HERE

Password

.....

☐ Show Password

Restart device

And wait for the Settings saved text to appear..

Wifi Settings

Restart required!!

SSID

ssid

Password

.....

☐ Show Password


Restart device

Settings saved!

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

Your device should reboot and connect to the network.

You can verify this by either using serial monitor

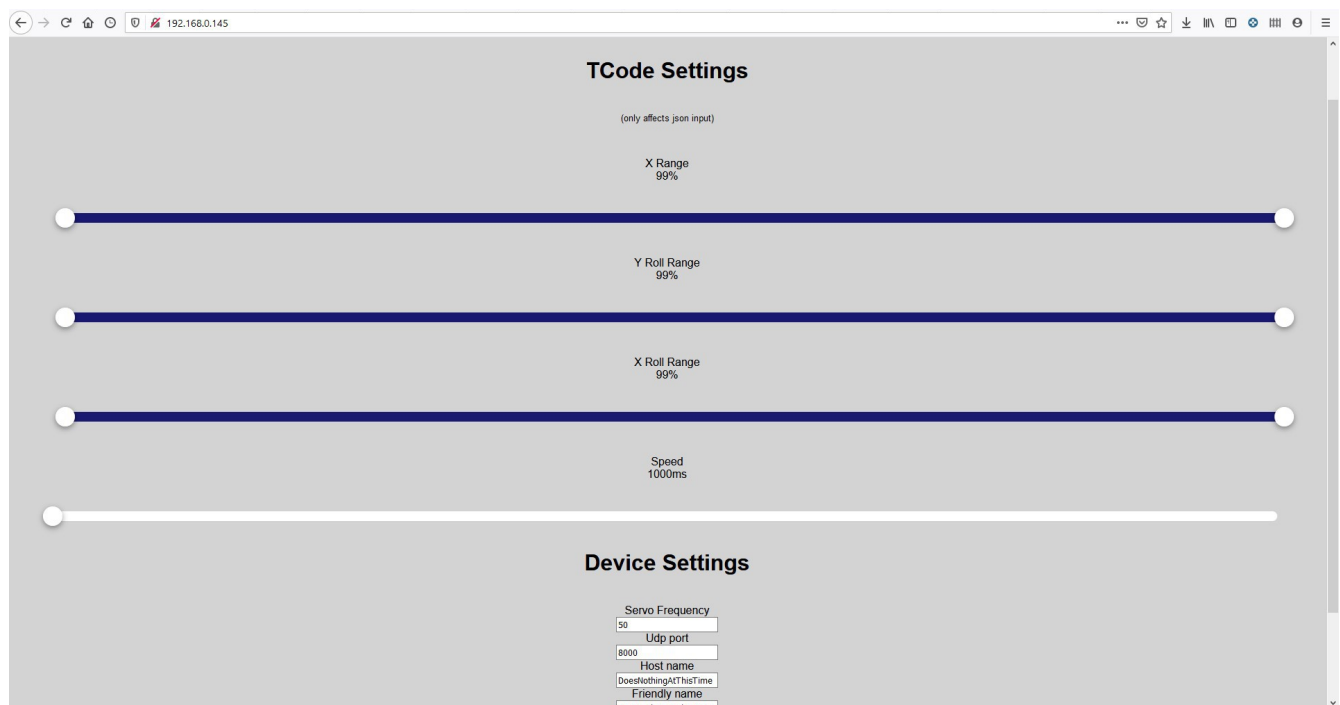
```
Establishing connection to   
..Connected: IP: 192.168.0.145  
UDP Listening  
Bluetooth started  
TCode v0.2  
Ready!  
█
```

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.

There's 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.