How To Flash Adafruit ESP32 HUZZAH32 Feather Board?

Note: More information about HUZZAH32 Feather Board can be found at

https://learn.adafruit.com/adafruit-huzzah32-esp32-feather

ESP32-HUZZAH32 uses a SiLabs CP210x, USB to UART Bridge on board. The Driver can be found at

https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

 Download the ESP32 Flash Tool from the following link. Select "Flash Download Tools (ESP8266 & ESP32 & ESP32-S2)"

https://www.espressif.com/en/support/download/other-tools

- 2. Unzip the file "flash_download_tool_v3.8.5.zip" file (where 3.8.5 is version of the tool).
- 3. See the Reference document "Flash_Download_Tool__en.pdf" in the folder flash_download_tool_v3.8.5\doc

Read the Section 4 Download for ESP32 series

- 4. Make sure all the 3 bin files are available
 - 1. bootloader.bin
 - 2. partitions_singleapp.bin
 - 3. qf wifi server xx xx 2021.bin
- 5. Open the bin file "flash_download_tool_3.8.5.exe" and select "Developer Mode" and then select "ESP32 Download Tool". (Expand window to see full path of files." Leave or Set the SPI Speed at 40MHz, SPI Mode "DIO" and Flash size 32Mbits
 - a. Set the COM port number by pulling down the scroll (at the bottom of the window)
 - b. Set the baudrate to 961800
 - c. Click on the browse button (..) and select "bootloader.bin"
 - d. Fill the start address(@) as 0x1000
 - e. Browse and select "partitions singleapp.bin". Fill the start address 0x8000
 - f. Browse and select "gf wifi server xx xx 2021.bin". Fill the start address 0x10000
 - g. Put Ticks (ie select) in the 3 square boxes at the start (See Figure 1 below)
 - h. Click on "Start" below the green IDLE button

If all the parameters are correct, it should finish flashing and show FINISH in the green button as shown in **Figure 2 below**. Then close the Flash Download windows to exit.

ESP32 DOW	NLOAD TOOL V3.8.5					×	
SPIDownload	HSPIDownload	GPIOConfig					
						^	
			r_raw_wifi_app\ESP32_Wifi\bootloader.bin	@	0x1000		
	ogic\qorc-sdk-wfi\d	qf_vr_apps\qf_	r_raw_wifi_app\ESP32_Wifi\qf_wifi_server_02_04_2021.bin	@	0x10000	_	
				@		_	
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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				
Download Pane	11						
IDLE 等待						^	
START	STOP ERAS	COM:	COM15			~	
JIAIN	JIOT LIVAS	BAUD:	921600			~	

Figure 1.

ESP32 DO	WNLOAD TOOL V	3.8.5			×
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Download Pa		109 STA: 2462ABD			
FINISH 完成		^			
START	STOP E	COM:	СОМ7		~
	-1-1	BAUD:	921600		~

Figure 2