## How To Flash DevKitC-VF Board?

Note: ESP32-DevKitC-VE uses a SiLabs CP210, USB to UART Bridge on board. The Driver can be found 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).
- 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\_4mb\_flash.bin
  - 3. alexa.bin
- 5. Open the bin file "flash\_download\_tool\_3.8.5.exe" and select "ESP32 Download Tool" Leave or Set the SPI Speed at 40MHz, SPI Mode "DIO" and Flash size 32Mbits
  - a. Set the COM port number
  - b. Set the baudrate to 921600
  - c. Click on the browse button (..) and select "bootloader.bin"
  - d. Fill the start address as 0x1000
  - e. Browse and select "partitions\_4mb\_flash.bin". Fill the start address 0x8000
  - f. Browse and select "alexa.bin". Fill the start address 0x10000
  - g. Put Ticks 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**.

■ ESP32 DOWNLOAD TOOL	. V3.8.5		_		X
SPIDownload HSPIDown	load GPIOConfig				
C:\Espressif\Esp32_binf  Combin  Defair  SPI MOE  QOUT  O DOUT  FASTR	FLASH SIZE  BeBin  BeBi	ash.bin    SpiAutoSet	0 0 0 0 0 0 0	0x1000 0x8000 0x10000	
Download Panel 1					
IDLE 等待					< >
START STOP	ERASE COM: BAUD:	COM15 921600			~
	5.1361	921000			

Figure 1.

ESP32 DOWNLOAD TOOL V3.8.5	_		X
SPIDownload HSPIDownload GPIOConfig			
C:\Espressif\Esp32_binfiles\partitions_4mb_flash.bin  C:\Espressif\Esp32_binfiles\alexa.bin		0x1000 0x8000 0x10000	<b>^</b>
Download Panel 1  FINISH			^
START STOP ERASE COM: COM15 BAUD: 921600		,	~ ~

Figure 2