

## ESP8266 UNAPI Firmware Pre-Installation Guide

The following instructions are used to prepare an ESP-01 Wi-Fi module for use in an MSX compatible machine already prepared for it. A personal computer with Windows operating system is required to perform the pre-installation. “ESP8266 Wi-Fi firmware” is a custom firmware made by Oduvaldo Pavan Junior (ducasp).

### Hardware required

- ESP-01 Wi-Fi module by 1024kB (black version)
- @diymore.cc USB to ESP-01 Adapter (red version)

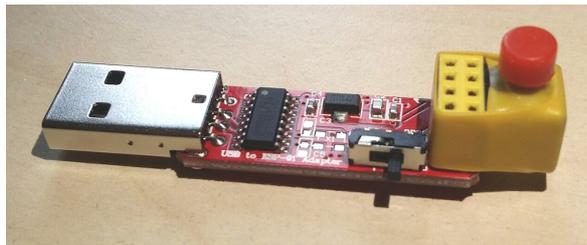
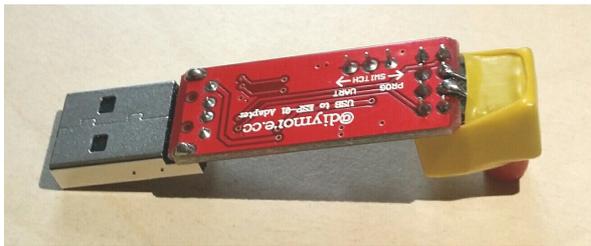


### Software required

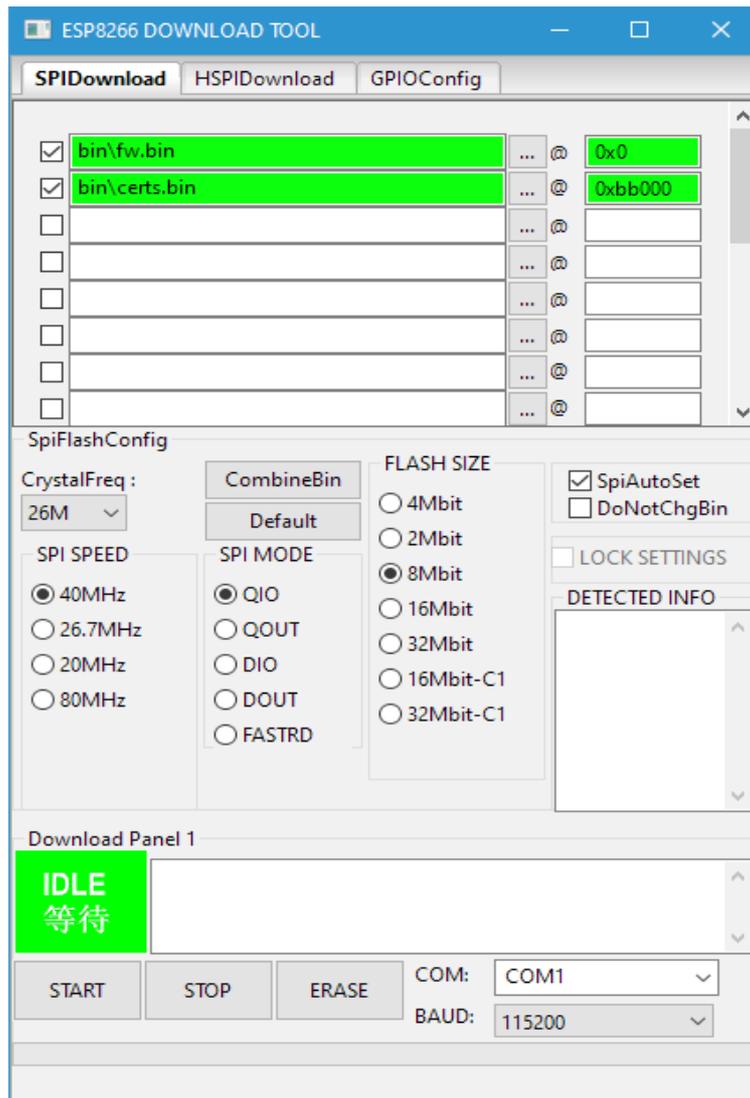
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→ [http://github.com/ducasp](https://github.com/ducasp)
- Espressif Download Tool  
→ <http://www.espressif.com/en/support/download/other-tools>
- CH34X Device Driver  
→ [http://www.wch.cn/downloads/CH341SER\\_EXE.html](http://www.wch.cn/downloads/CH341SER_EXE.html)

## HOW-TO

1. Make a change to the red adapter by soldering an extra switch between pins 4-6 of the yellow header. These two pins must be closed during the firmware flash or opened to reset the ESP-01.



2. Install the "ch341ser.exe" driver and insert the red adapter on a USB port positioning the integrated switch on the PROG option.
3. Run "flash\_download\_tool\_3.8.8.exe", proceed with ESP8266 chip and Develop mode. Set the SPI Download tab as in the next picture and choose the correct COM port.



4. Insert the ESP-01 in the yellow header and press the ERASE button on the download tool. Close the pins 4-6 on red adapter to complete the erase.
5. Open the pins 4-6 on red adapter to get a hard reset of the ESP-01 and press START button on the download tool. Close the pins 4-6 on red adapter until the flash process is done.
6. The ESP-01 is now ready for use. The use of this specific Wi-Fi module is governed by the laws of your country under your responsibility.