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REF: B11-ESP01PROG

ESP8266 ESP-01 USB FIRMWARE FLASH BURNING WIFI MODULE DOWNLOADER PROGRAMMER



Description

This Module is an USB adapter /programmer for ESP8266 modules of type ESP-01 or ESP-01S. It is conveniently fitted with a 2x4P 2.54mm female header to plug the ESP01. Also, it breaks out all the pins of the ESP-01 via a 2x4P 2.54mm male header, so it is very convenient for user to debug the ESP8266.The module is based on the USB-UART CP2104 which is compatible with all platforms. Onboard with the ESP8266 automatic download circuit. It is very convenient for users to download ESP-01/01S program, upgrade firmware, serial debugging and so on. It supports lots of software such as Arduino IDE, ESP8266 Flasher and Lexin FLASH_DOWNLOAD_TOOLS.

Specifications

- USB Type A interface.
- One 2x4P 2.54mm female header
- One 2x4P 2.54mm male header
- Operating Volatge: 3.3V



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Circuit diagram

The photo above shows the connection between ESP8266 Flasher and Programmer and ESP8266 Wi-Fi Serial Transceiver Module by using jumper wire.



Download file

Download Driver for ESP8266 Flasher and Programmer Download firmware inside the <u>ESP8266 Flash Tool</u> folder. And install the driver.





Setup Application

Window (AT Firmware)

- 1. After Download Firmware Flasher file. Extract it. Enter the folder, go to install_firmware > window.
- 2. Open ESP_DOWNLOAD_TOOL_V2.4.exe.
- 3. Choose the COM port ESP8266 Flasher and Programmer + ESP8266 Wi-Fi Serial Transceiver module connecting to. Set the BAUDRATE to 115200.
- 4. Make sure ESP8266 Wi-Fi Serial Transceiver module is in FLASH mode (Refer Step 2 first photo for hardware configuration)
- 5. Click START to install the firmware.
- bin\boot_v1.2.bin 0x00000
- bin\user1.4096.new.4.bin 0x01000
- bin\blank.bin 0x7e000
- bin\user2.4096.new.4.bin 0x81000
- bin\esp_init_data_default.bin 0x3fc000
- bin\blank.bin 0x3fe000

ESP FLASH DOWNLOAD TOOL V2.3	– 🗆 ×		
FlashDownload RF InitConfig MultiDownload Download Path Config	ADDR 0x3e000 ADDR 0x00000 ADDR 0x40000 ADDR 0x7c000 ADDR 0x00000 ADDR 0x00000 ADDR 0x00000 ADDR 0x00000 ADDR 0x00000		
SPI FLASH CONFIG CrystalFreq : 26M Default SPI SPEED 6 40MHz C QIO C A0MHz C QUT C 26.7MHz C DIO C 80MHz C DOUT C 32Mbit C DIO C 32Mbit-C1	SpiAutoSet DoNotChgBin IDbind , 0x DETECTED INFO 26 Mhz/Iash vendor: EFh : WB flash devID: 4014h QUAD;8Mbit crystal: 26 Mhz		
Download Panel 1 MAC Address SYNC START ※ 持上地呼歩 STOP COM PORT: COM5 ● BAUDRATE: 115200			



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Result

C:\Users\TECH\Downloads\FLASH_TOOL-20250210T044816Z-001\FLASH_TOOL\ESP_DOWNLOAD_TOOL_V2.4.exe

EFUSE NUKMAL MUDE	
CRC TN MODE 1:	
che in Mode I.	
target crc val: 100	
	ESP FLASH DOWNLOAD TOOL V2.3 — L X
	FlashDownload RF InitConfig MultiDownload
CRC IN MODE 1:	- Download Path Config
crc_calc_res: 169	
target crc val: 169	C:\Users\TECH\Downloads\ESP8266_FLASI ADDR 0x3e000
	C:\Users\TECH\Downloads\ESP8266_FLASI ADDR 0x00000
	C)Ulterr) TECH) Devenloade) ESD9266_ELASI
	ADDR OX40000
	C:\Users\TECH\Downloads\ESP8266_FLASI ADDR 0x7c000
	ADDB 0x00000
EFUSE LUG:	ADDK ,
	ADDR
	··· ADDR
REG0: A6A90000	
REG1:0200E488	CrystalFreq : 1 Exit_uteSet
REG2:6400b000	CombineBin FLASH SIZE DeNotChaPin
REG3:005CCF7F	26M V Default C 4Mbit
	Derault C 2M4-2
	SPI SPEED SPI MODE
EFUSE NORMAL MODE	C OLD C
	C 16Mbit 26 Mhzflash vendor: A
EFUSE CHECK PASS	C 26.7MHz C QOUT C 32Mbit EFh : WB
	C 20MHz C DIO C 10MHz C1 4014b
regz>>13: 5	O ROMHZ O DOUT
	C 32Mbit-C1 crystal:
debug:	26 Mhz
5c cf 7f e4 88 a6	Download Panel 1
ID FOR XM: 06 40 00 00 00 0A 90 00	MAC Address
XM_ID: 064000000000000	SYNC AP MAC: 5E-CF-7F-E4-88-A6
	等待上电同步 STOP STA MAC: 5C-CF-7F-E4-88-A6
crc_efuse_4bit: 0	
CPC_CALC_4D1T: 3	COM PORT: COM5 V BAUDRATE: 115200 V
48DIL MAC MAC AD + EE CE 7E EA 99 A6	
MAC AP . 5E-CF-7F-E4-88-A0	
det mar res: True	
('tttest uuuuuuuuuuart : uart reg: '. 454)	
(' baudrate: '. 115200)	
get crystal: 26150400	
head: 0 ;total: 0	
erase size : 0	
get flash id : 0x061440ef	
manufacturer_id: 0xef	
device_id: 0x4014	
venden: 220	
mode: 64	
size: 20	
com closed	