

# Cubli\_Mini\_Pro固件烧录

## 下载固件烧录工具和固件、CH340 USB转串口驱动

代码块

```
1 git clone git@github.com:ZhaJiHu/Cubli_Mini_S_Pro.git
2
3 https://www.wch.cn/downloads/CH343SER_EXE.html
```

## CH340 USB转串口驱动安装

双击驱动，直接安装即可

## 解压固件下载工具

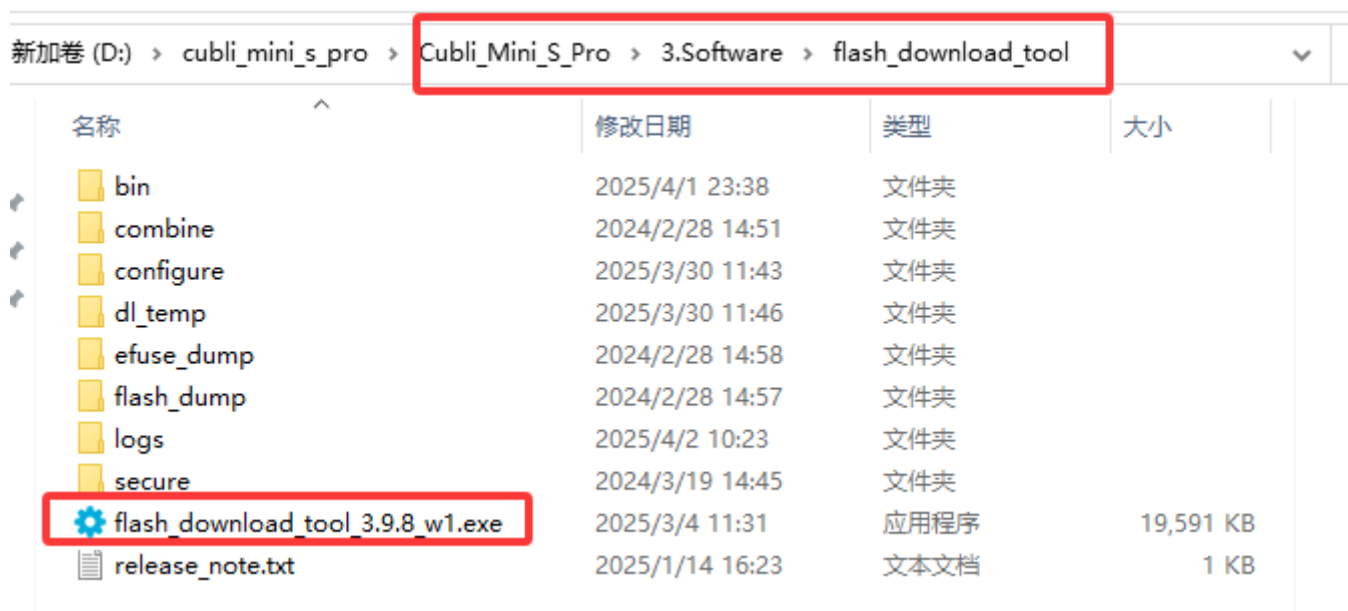
进入Cubli\_Mini\_S\_Pro\3.Software\

解压flash\_download\_tool\_releasex.x.zip

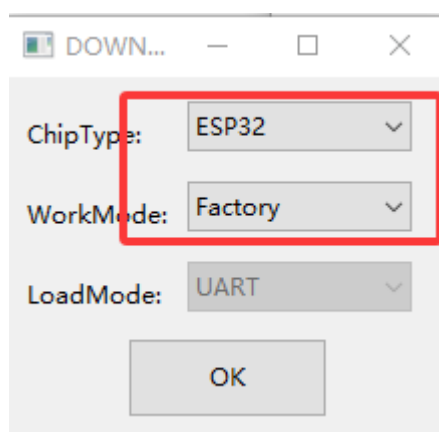


## 固件烧录

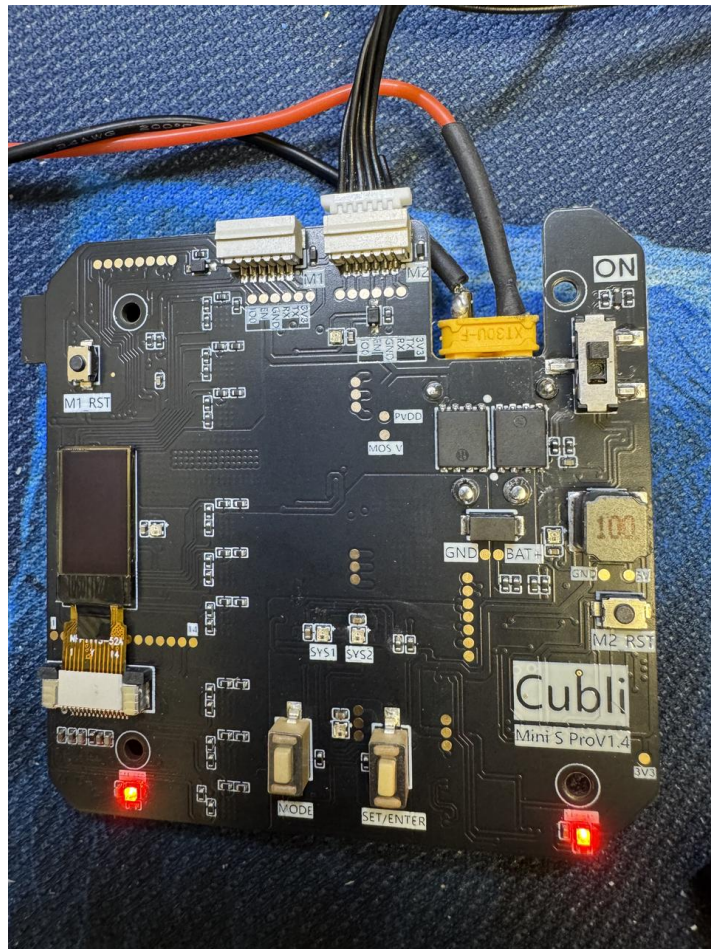
1. 进入目录：Cubli\_Mini\_S\_Pro\3.Software\flash\_download\_tool\，双击 flash\_download\_tool\_3.9.8\_w1.exe



2. 弹出的悬窗选择ESP32, Factory



3. 进入工厂模式的话，作者已经默认选好了所需要烧录的MCU1,MCU2固件，不需要再自己选择文件。首先是MCU2烧录，左边勾选MCU2相关的3个文件，把串口线怼进MCU2的串口接口，右边选择自己的串口号，波特率选择921600，然后点击START，给主控上电，左边的黑框就会显示下载的log，右边的进度条也有显示下载进度。进度条结束后，START上方的lable会显示完成



# ESP32 FLASH DOWNLOAD TOOL V3.9.8

FactoryMultiDownload

☐

bin\bootloader.bin

...

0x1000

☐

bin\MCU1\partitions.bin

...

0x8000

☐

bin\MCU1\firmware.bin

...

0x10000

☐

...

☐

...

☒

bin\bootloader.bin

...

0x1000

☒

bin\MCU2\partitions.bin

...

0x8000

☒

bin\MCU2\firmware.bin

...

0x10000

SPIFlashConfig

SPI SPEED

☒ 40MHz

☐ 26.7MHz

☐ 20MHz

☐ 80MHz

SPI MODE

☐ QIO

☐ QOUT

☒ DIO

☐ DOUT

☐ FASTRD

☒ DoNotChgBin

☒ LockSettings

CombineBin

Default

DetectedInfo

DownloadPanel 1

IDLE  
等待

PASS: 5

FAIL: 16

clear

START

STOP

ERASE

COM: COM27

BAUD: 921600

DownloadPanel 2

IDLE  
等待

PASS: 1

FAIL: 10

clear

START

STOP

ERASE

COM: COM27

BAUD: 115200

DownloadPanel 3

IDLE  
等待

PASS: 0

FAIL: 0

clear

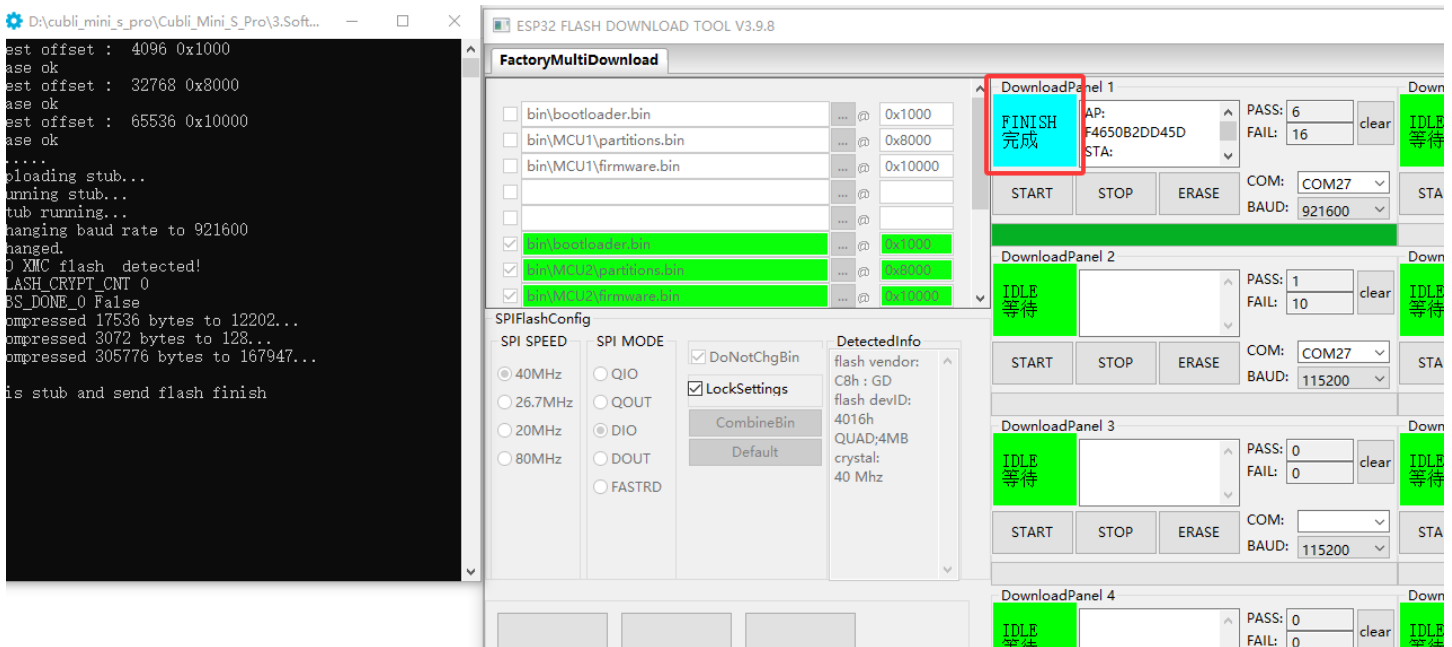
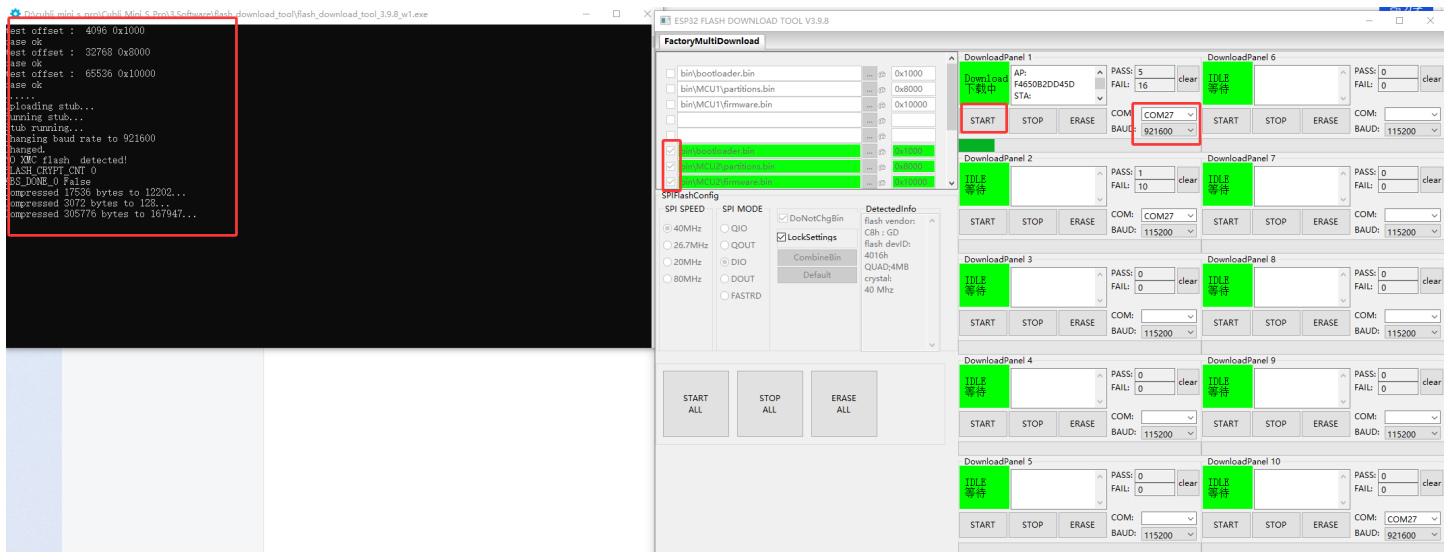
START

STOP

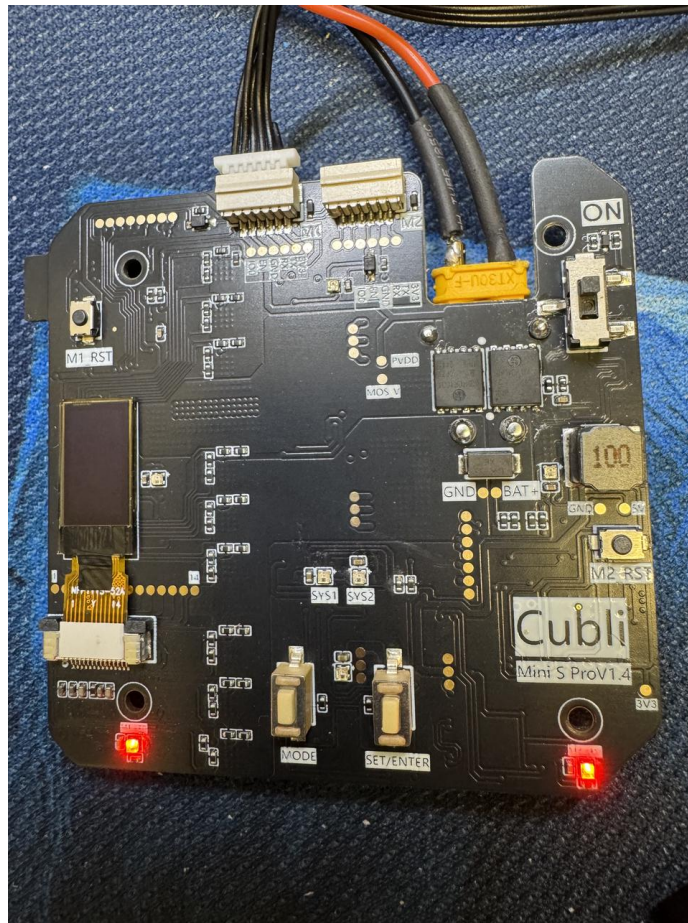
ERASE

COM:

BAUD: 115200



4. MCU1的固件烧录，点掉LockSettings的勾选，点掉MCU2相关的文件，勾选上MCU1相关的3个文件，然后把串口线怼进MCU1串口，点START开始烧录，完成后同MCU2



```

D:\cubli_mini_s_pro\Cubli_Mini_S_Pro\3.Soft...
Compressed 17536 bytes to 12202...
Compressed 3072 bytes to 128...
Compressed 305776 bytes to 167947...

is stub and send flash finish
test offset : 65536 0x10000
case ok
test offset : 4096 0x1000
case ok
test offset : 32768 0x8000
case ok
test offset : 4096 0x1000
case ok
test offset : 32768 0x8000
case ok
test offset : 65536 0x10000
case ok

Uploading stub...
Running stub...
Stub running...
Changing baud rate to 921600
Changed.
NO XMC flash detected!
FLASH_CRYPT_CNT 0
ABS_DONE_0 False
Compressed 17536 bytes to 12202...
Compressed 3072 bytes to 119...
Compressed 1166912 bytes to 749572...

```

### ESP32 FLASH DOWNLOAD TOOL V3.9.8

#### FactoryMultiDownload

Download Path Config		
<input checked="" type="checkbox"/>	bin\bootloader.bin	0x1000
<input checked="" type="checkbox"/>	bin\MCU1\partitions.bin	0x8000
<input checked="" type="checkbox"/>	bin\MCU1\firmware.bin	0x10000
<input type="checkbox"/>		
<input type="checkbox"/>	bin\bootloader.bin	0x1000
<input type="checkbox"/>	bin\MCU2\partitions.bin	0x8000
<input type="checkbox"/>	bin\MCU2\firmware.bin	0x10000

#### SPIFlashConfig

SPI SPEED: 40MHz (selected), 26.7MHz, 20MHz, 80MHz
SPI MODE: QIO, QOUT, DIO (selected), DOUT, FASTRD
☒ DoNotChgBin
☐ LockSettings
CombineBin
Default

#### DetectedInfo

flash vendor: C8h : GD
flash devID: 4016h
QUAD:4MB
crystal: 40 Mhz

#### DownloadPanel 1

Download 下载中
AP: F4650B2DD461
STA: F4650B2DD460
PASS: 6
FAIL: 16
clear
START STOP ERASE
COM: COM27
BAUD: 921600

#### DownloadPanel 2

IDLE 等待
PASS: 1
FAIL: 10
clear
START STOP ERASE
COM: COM27
BAUD: 115200

#### DownloadPanel 3

IDLE 等待
PASS: 0
FAIL: 0
clear
START STOP ERASE
COM: 
BAUD: 115200



compressed 305776 bytes to 167947...

is stub and send flash finish

test offset : 65536 0x10000

case ok

test offset : 4096 0x1000

case ok

test offset : 32768 0x8000

case ok

test offset : 4096 0x1000

case ok

test offset : 32768 0x8000

case ok

test offset : 65536 0x10000

case ok

uploading stub...

running stub...

stub running...

changing baud rate to 921600

changed.

NO XMC flash detected!

FLASH\_CRYPT\_CNT 0

BS\_DONE\_0 False

compressed 17536 bytes to 12202...

compressed 3072 bytes to 119...

compressed 1166912 bytes to 749572...

is stub and send flash finish

## FactoryMultiDownload

## Download Path Config

<input checked="" type="checkbox"/>	bin\bootloader.bin	...	@	0x1000
<input checked="" type="checkbox"/>	bin\MCU1\partitions.bin	...	@	0x8000
<input checked="" type="checkbox"/>	bin\MCU1\firmware.bin	...	@	0x10000
<input type="checkbox"/>		...	@	
<input type="checkbox"/>		...	@	
<input type="checkbox"/>	bin\bootloader.bin	...	@	0x1000
<input type="checkbox"/>	bin\MCU2\partitions.bin	...	@	0x8000
<input type="checkbox"/>	bin\MCU2\firmware.bin	...	@	0x10000

## SPIFlashConfig

## SPI SPEED

☒ 40MHz

☐ 26.7MHz

☐ 20MHz

☐ 80MHz

## SPI MODE

☐ QIO

☐ QOUT

☒ DIO

☐ DOUT

☐ FASTRD

☒ DoNotChgBin

☐ LockSettings

CombineBin

Default

## DetectedInfo

flash vendor:

C8h : GD

flash devID:

4016h

QUAD;4MB

crystal:

40 Mhz

## DownloadPanel 1

FINISH 完成	AP: F4650B2DD461	PASS: 7	clear
	STA: F4650B2DD460	FAIL: 16	
START	STOP	ERASE	
COM: COM27			
BAUD: 921600			

## DownloadPanel 2

IDLE 等待		PASS: 1	clear
		FAIL: 10	
START	STOP	ERASE	
COM: COM27			
BAUD: 115200			

## DownloadPanel 3

IDLE 等待		PASS: 0	clear
		FAIL: 0	
START	STOP	ERASE	
COM:			
BAUD: 115200			