

ZBDongle-E

Firmware Acquisition

Coordinator:

https://github.com/itead/Sonoff_Zigbee_Dongle_Firmware/tree/master/Dongle-E/NCP

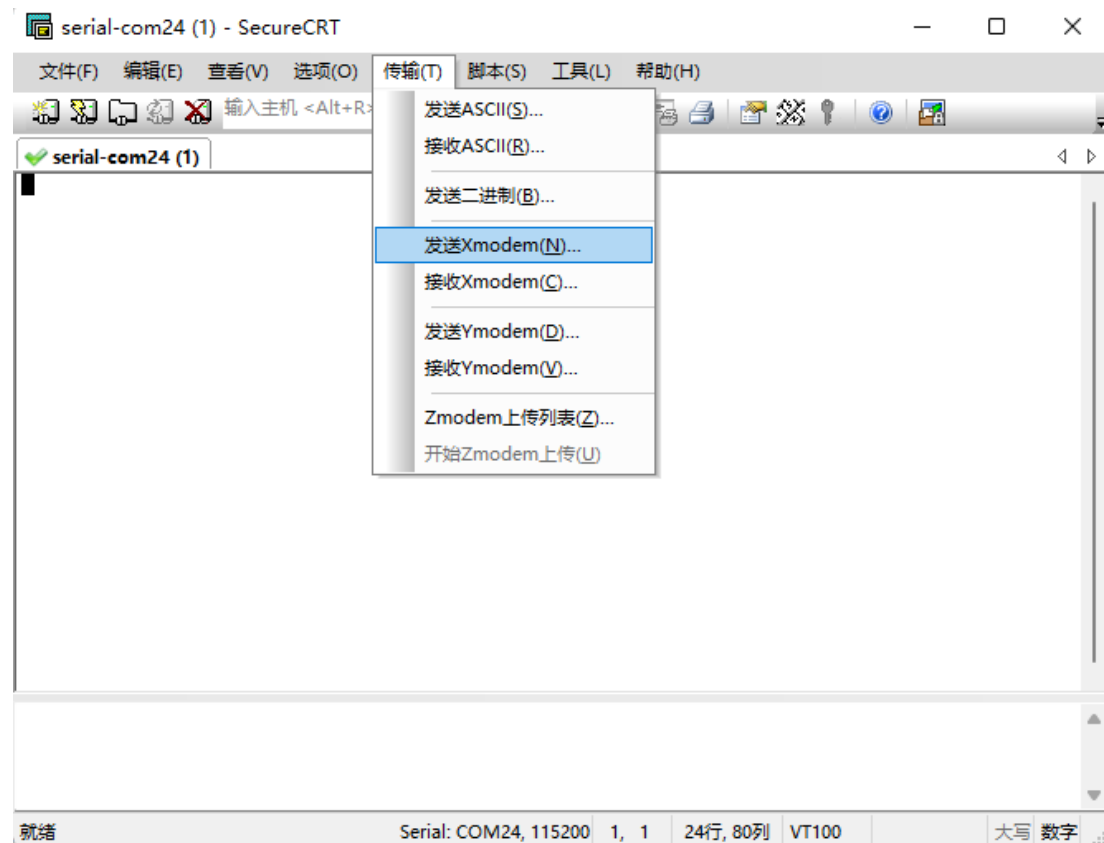
Router:

https://github.com/itead/Sonoff_Zigbee_Dongle_Firmware/tree/master/Dongle-E/Router

Firmware Flashing

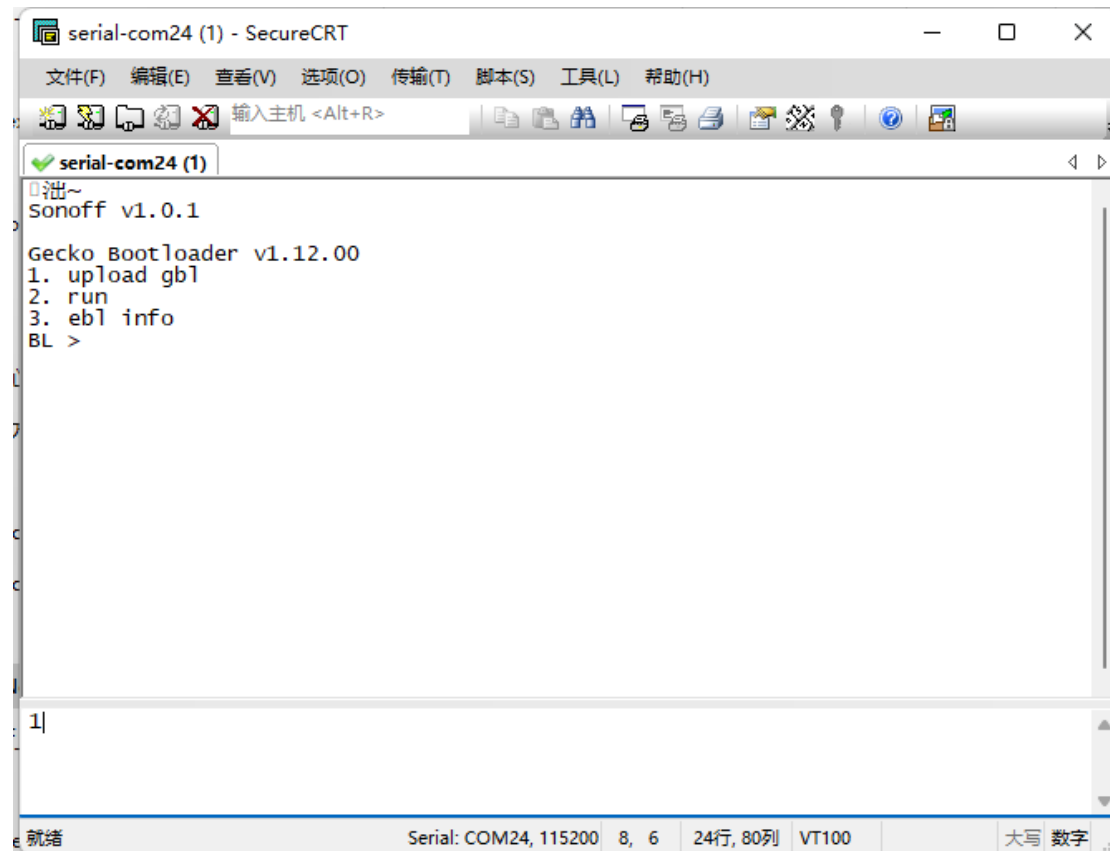
Use any tool that supports sending Xmodem(N), Here use SecureCRT as example.

1. Click "send Xmodem(N)", select the local downloaded firmware.



2. Dongle Enter Bootloader Mode

Keep pressing the Boot button, restart the device, and release the Boot button after Dongle enters the serial port Bootloader, then enter 1.

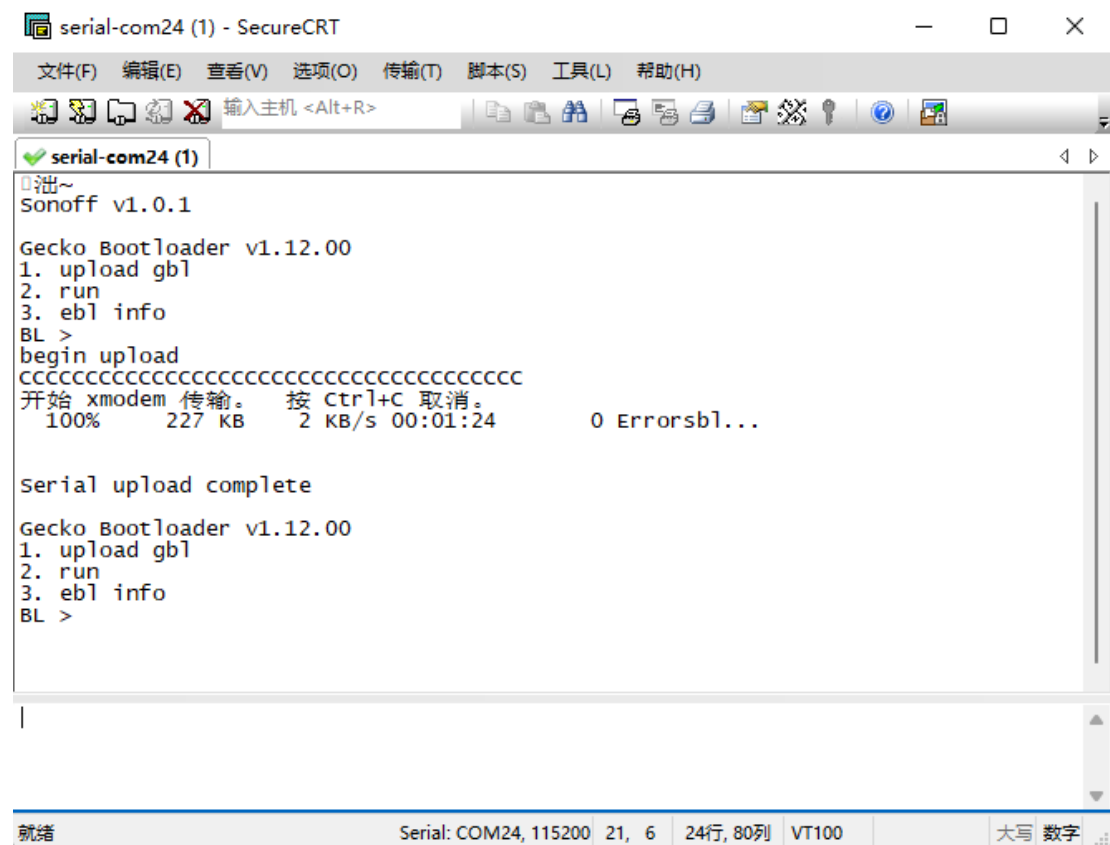


The image shows a screenshot of a SecureCRT terminal window titled "serial-com24 (1) - SecureCRT". The window has a menu bar with options: 文件(F), 编辑(E), 查看(V), 选项(O), 传输(T), 脚本(S), 工具(L), 帮助(H). Below the menu bar is a toolbar with various icons and a text input field containing "输入主机 <Alt+R>". The main terminal area displays the following text:

```
串口~  
Sonoff v1.0.1  
  
Gecko Bootloader v1.12.00  
1. upload gb1  
2. run  
3. ebl info  
BL >
```

At the bottom of the terminal, the number "1" has been entered, followed by a cursor. The status bar at the bottom of the window shows: 就绪, Serial: COM24, 115200, 8, 6, 24行, 80列, VT100, 大写 数字.

3. Download completed.



```
serial-com24 (1) - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)
输入主机 <Alt+R>
serial-com24 (1)
| 泄~
Sonoff v1.0.1

Gecko Bootloader v1.12.00
1. upload gbl
2. run
3. ebl info
BL >
begin upload
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
开始 xmodem 传输。 按 Ctrl+C 取消。
100%      227 KB      2 KB/s 00:01:24      0 Errorsbl...

Serial upload complete

Gecko Bootloader v1.12.00
1. upload gbl
2. run
3. ebl info
BL >
```

就绪 Serial: COM24, 115200 21, 6 24行, 80列 VT100 大写 数字

4. Finally, enter "2" or reboot manually.

ZBDongle-P

Firmware acquisition

Download the Z-Stack_3.x.0 firmware of CC2652P USB Dongle from the following link:

Coordinator:

https://github.com/Koenkk/Z-Stack-firmware/tree/master/coordinator/Z-Stack_3.x.0

Router:

https://github.com/Koenkk/Z-Stack-firmware/tree/master/router/Z-Stack_3.x.0

Firmware flashing

Method 1:

Use the automatic upgrade tool "cc2538-bsl" to achieve "Auto BSL".

<https://github.com/JelmerT/cc2538-bsl>

Method 2:

CC2652P USB Dongle supports serial port Bootloader to flash firmware. Use firmware flashing tools like "Flash Programmer 2" to flash the firmware.

1. Enter the serial port Bootloader

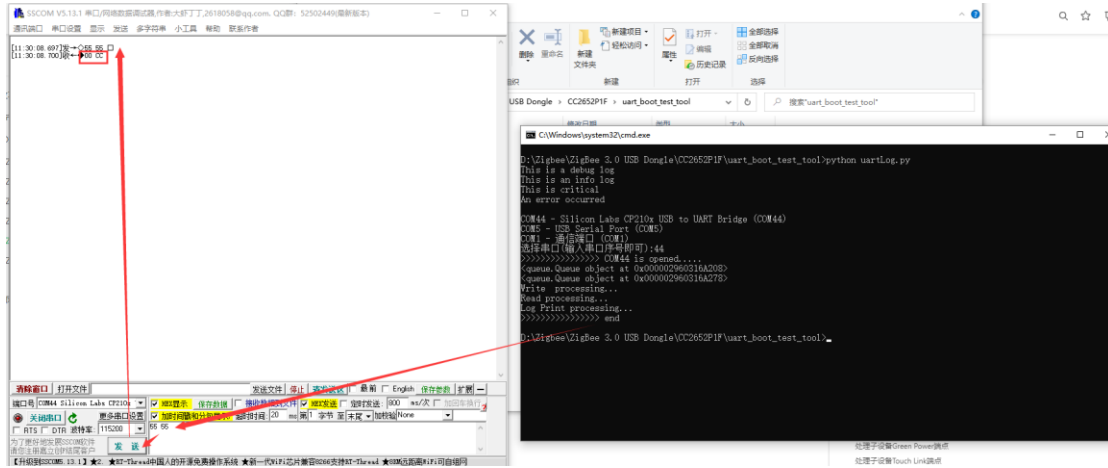
There are two ways for Dongle to enter Bootloader:

1. Manual mode

Keep pressing the Boot button, restart the device, and release the Boot button after Dongle enters the serial port Bootloader.

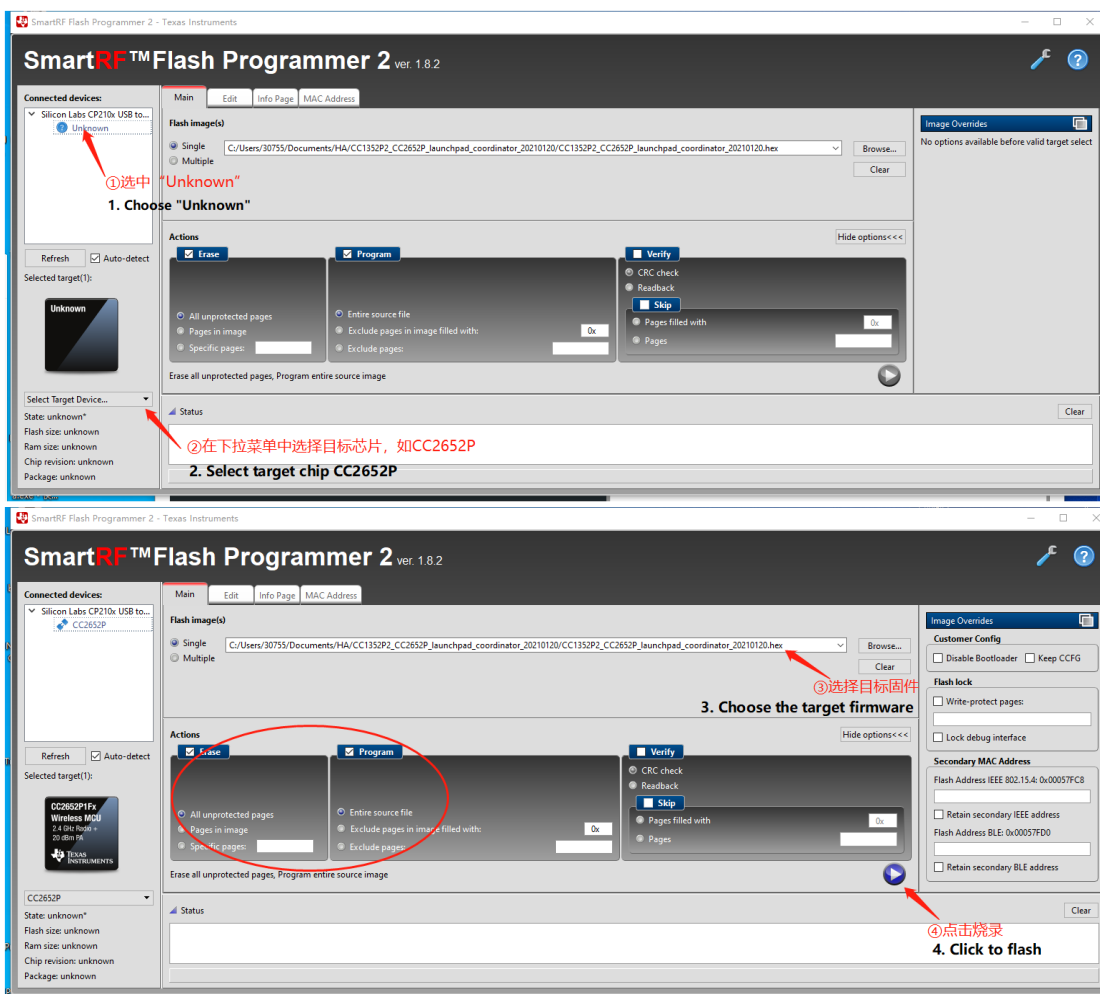
2. Automatically enter the serial port Bootloader through a python script

<https://sonoff.tech/wp-content/uploads/2022/08/uartLog.zip>



Note: The serial port Bootloader does not enable hardware flow control.

2. Using Flash Programmer 2 serial port flashing firmware



Note: There is no difference between the coordinator and routing firmware flashing steps.

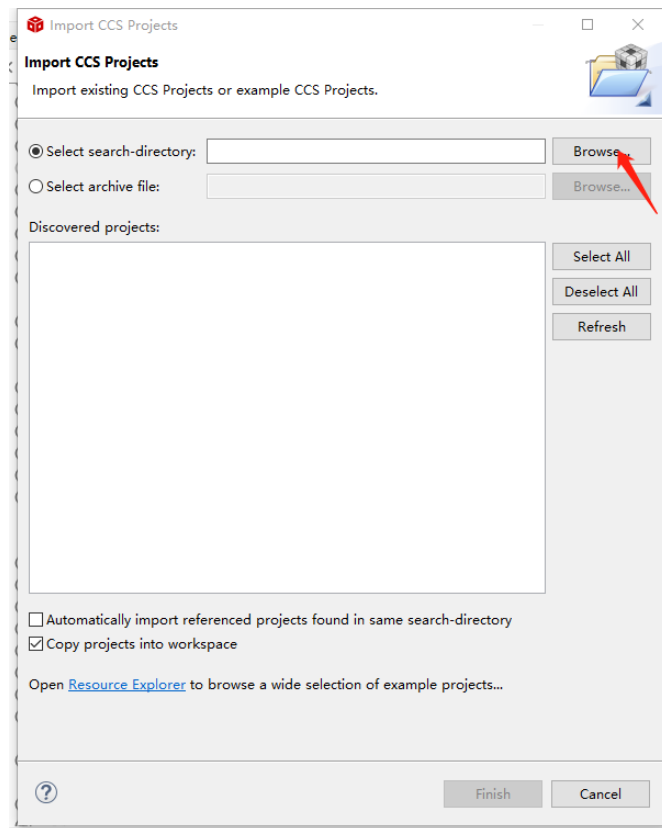
Enable Hardware Flow Control and Generate Corresponding Firmware (optional)

If you need to enable the hardware flow control of the CC2652P USB Dongle, you need to use CCS to import the ZNP project to configure and compile the firmware that supports the hardware flow control.

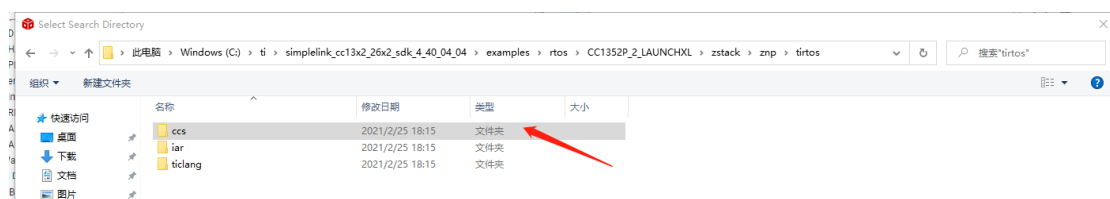
Note: At present, the device cannot be used after hardware flow control is enabled, and the open source platforms have not yet supported it.

1. Import the ZNP project of CC1352P into CCS

1. CCS 【Project】 - 【Import CCS Project】



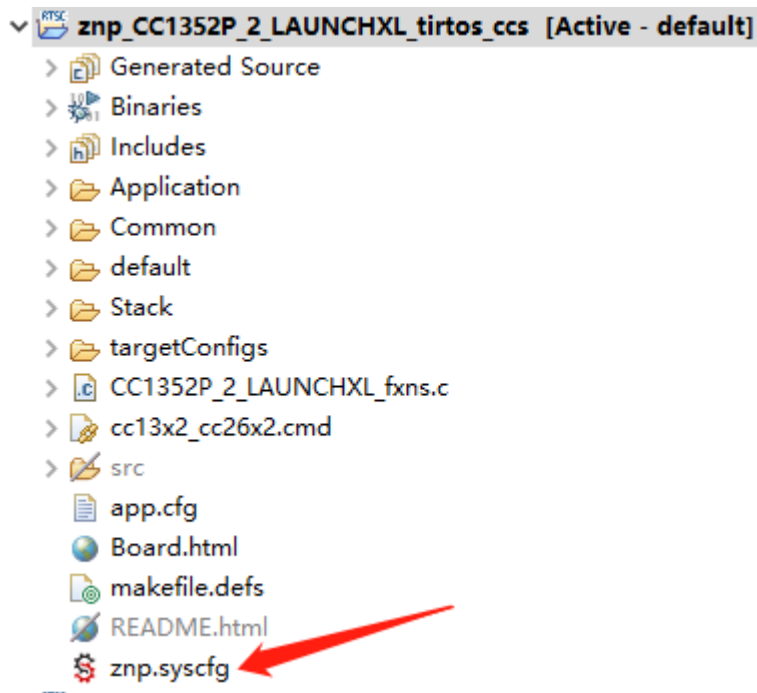
2. Click [Browse] and select the ZNP project file under SDK:



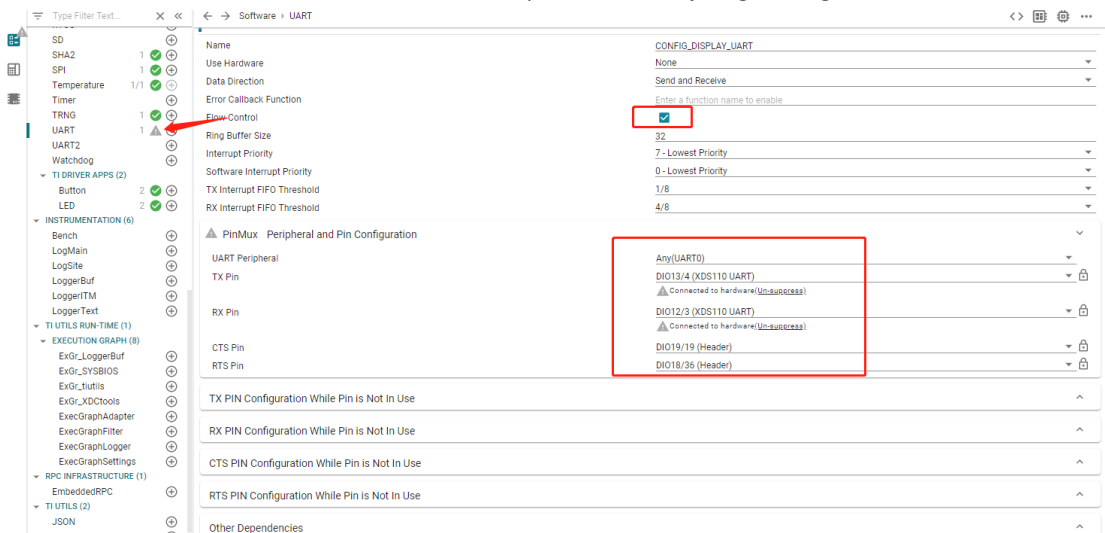
3. Click [Finish]

2. Configure engineering hardware flow control

1. Open the .syscfg configuration file in the ZNP project:



2. Enable serial flow control in the UART option in the .syscfg configuration file:



3. Then save and compile.