

# 1. Cc2652P Firmware Flashing

## 1.1 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](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](https://github.com/Koenkk/Z-Stack-firmware/tree/master/router/Z-Stack_3.x.0)

## 1.2 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

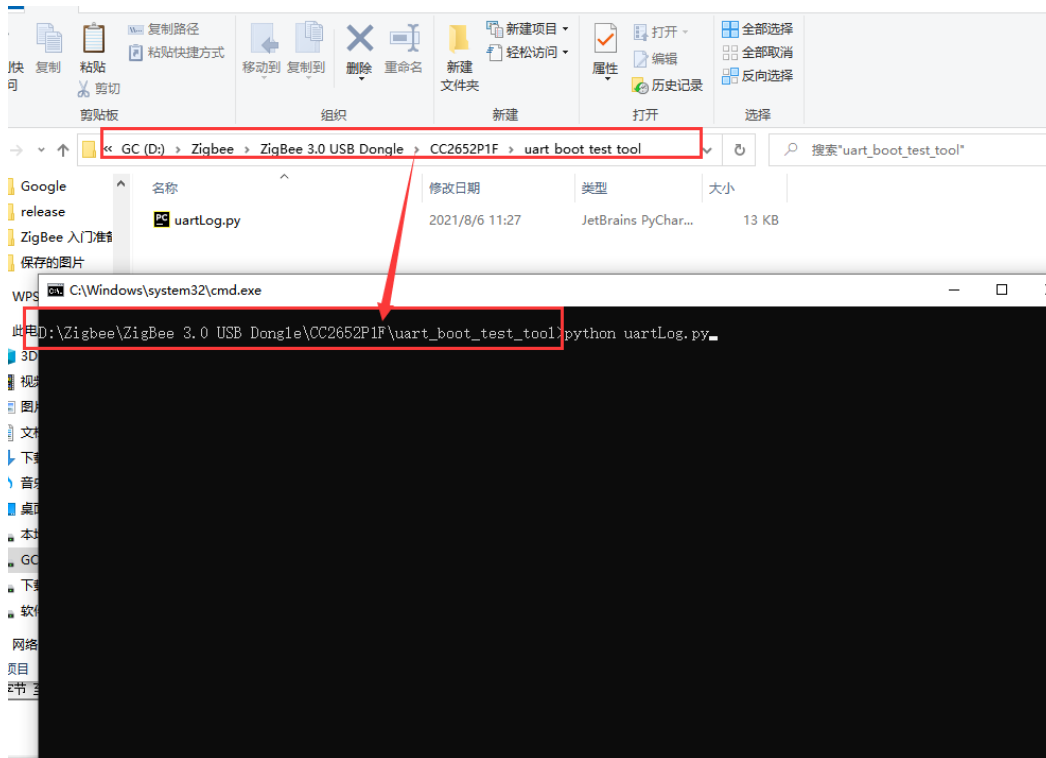
Keep pressing the Boot button, restart the device, and release the Boot button after Dongle enters the serial port Bootloader.

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

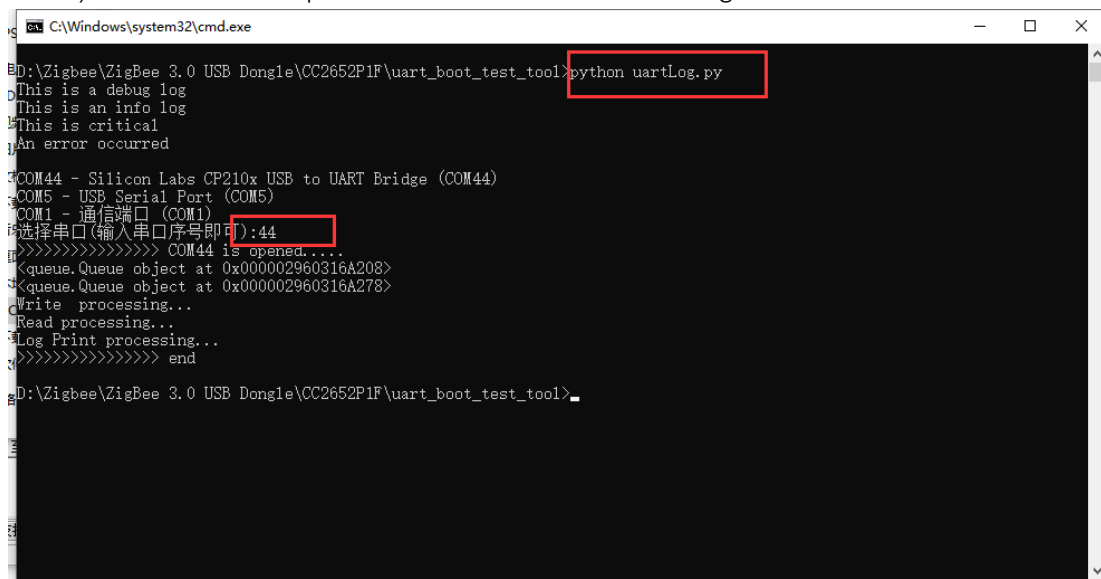
<https://bit.ly/32cJoz6>

## Step to execute python script:

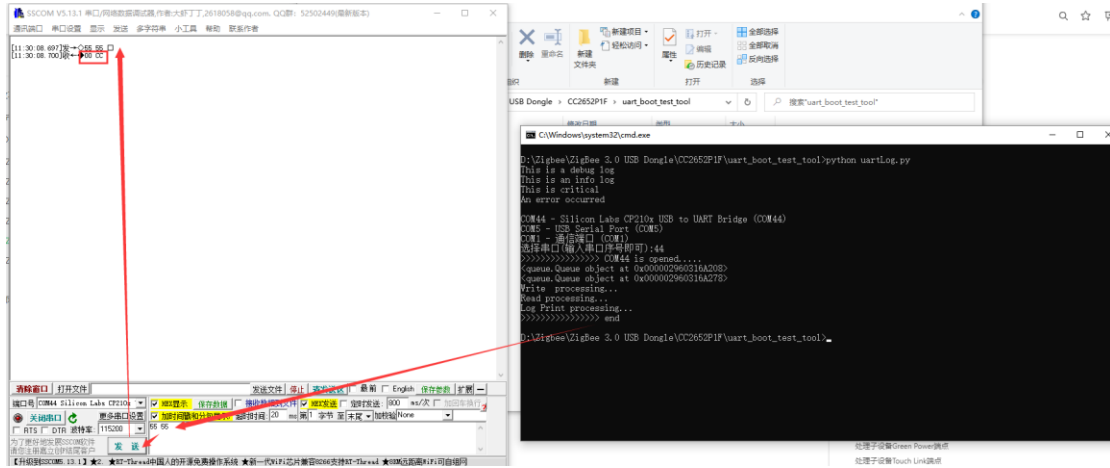
- 1) Download, unzip and execute the file



- 2) Enter the serial port number inserted into the dongle

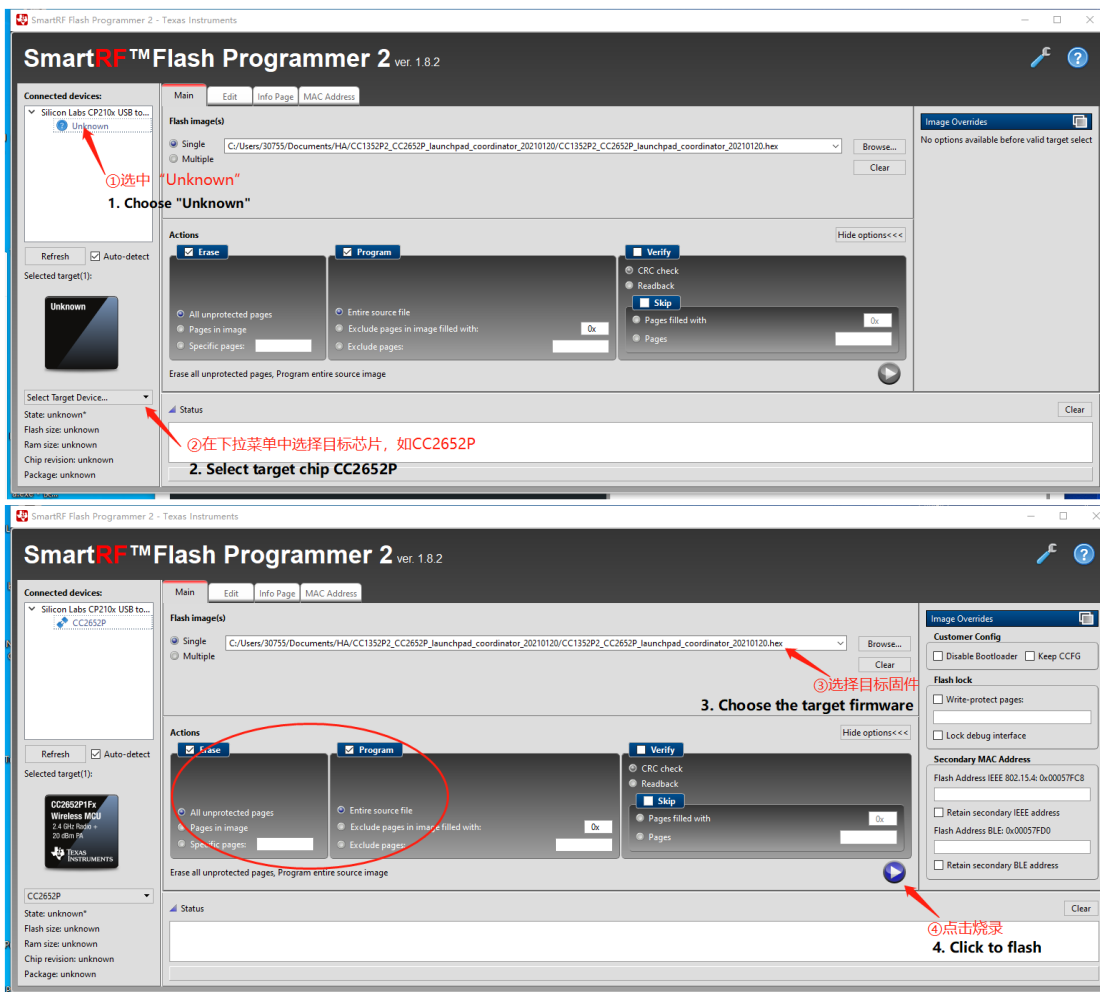


- 3) After executing the file, enter 55 55 in the serial port assistant tool, and receive the returned result 00 CC, which means that the dongle has successfully entered the Bootloader.



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

## 2. Using Flash Programmer 2 serial port flashing firmware



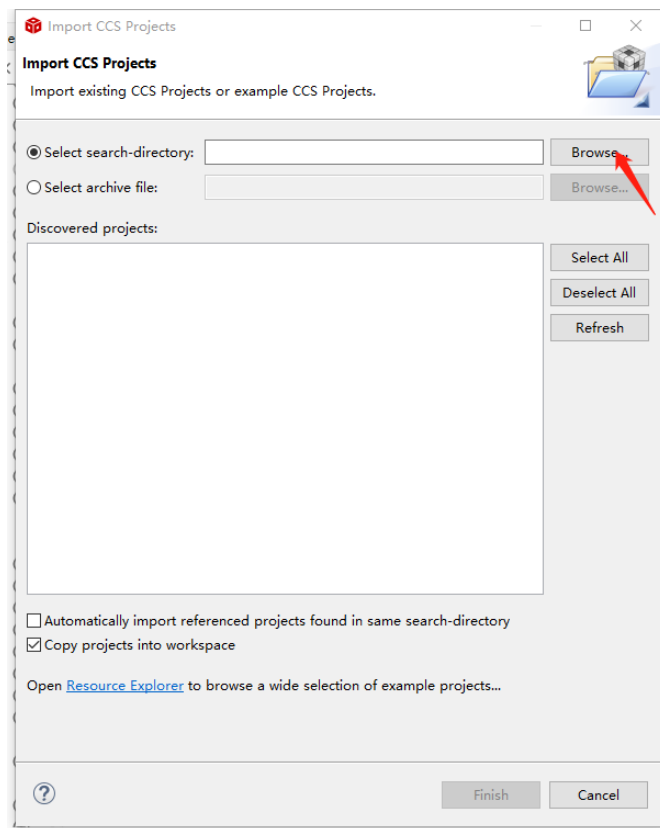
Note: There is no difference between the coordinator and routing firmware flashing steps.

## 2. Enable Hardware Flow Control and Generate Corresponding Firmware (optional)

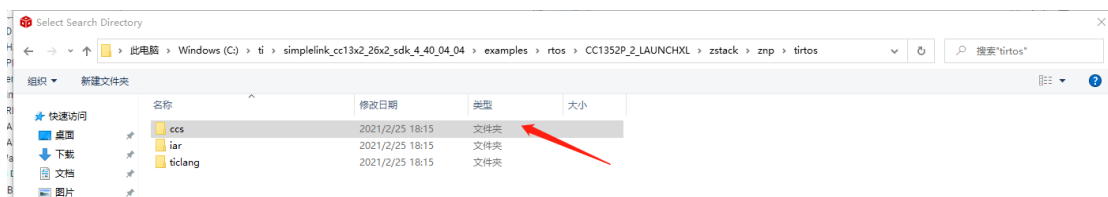
If you need to enable the hardware flow control of the CC2652P USB Dongle, you need to use CCS to import the ZNP project to configure and compile the firmware that supports the hardware flow control.

### 2.1 Import the ZNP project of CC1352P into CCS

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



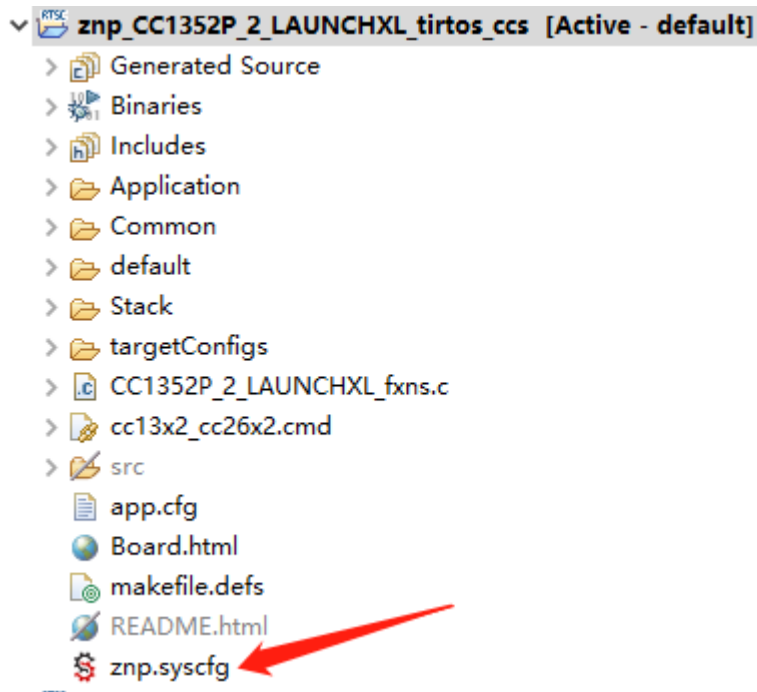
#### 2. Click [Browse] and select the ZNP project file under SDK:



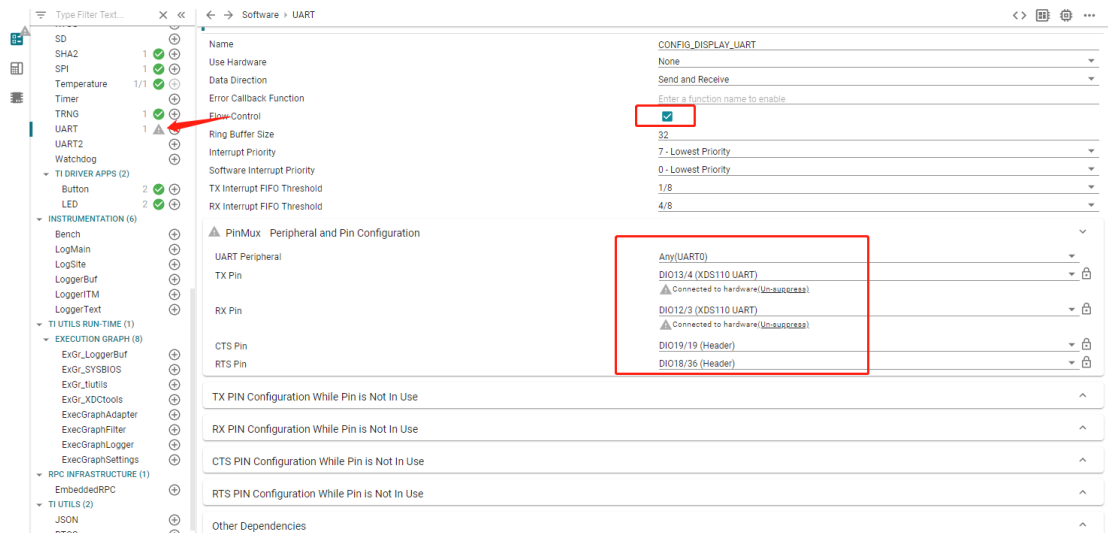
3. Click [Finish]

## 2.2 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.

### 3. Adding Routers to the Gateway

The guide is for the routers that flashed with the official router firmware.

1. Download the official host computer SDK

<https://www.ti.com.cn/tool/cn/SIMPLELINK-CC13X2-26X2-SDK>

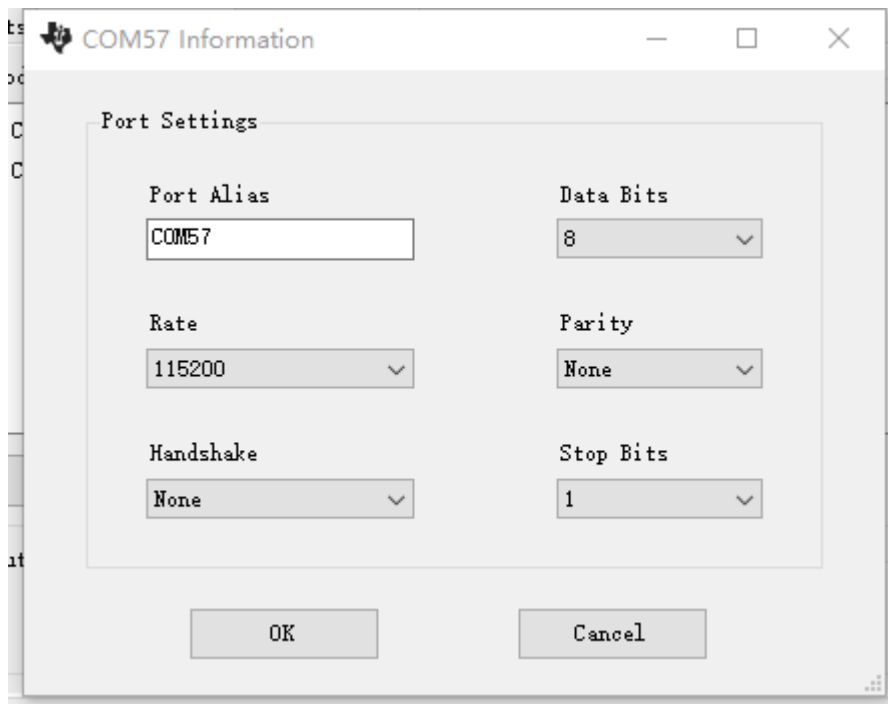
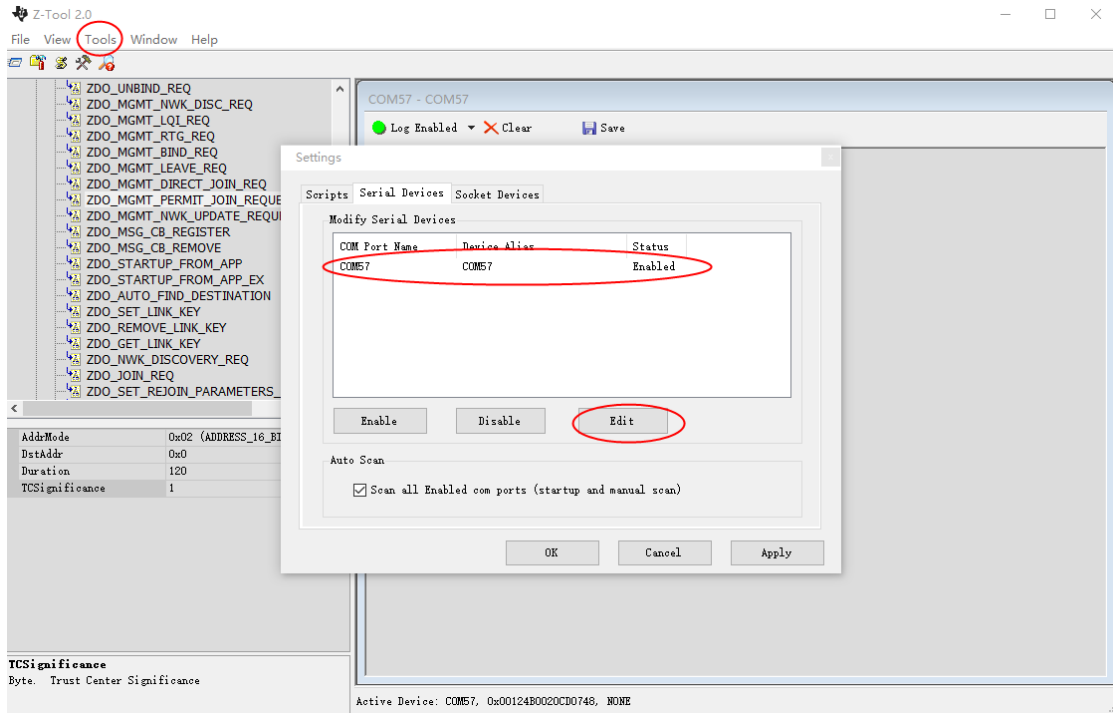
下载

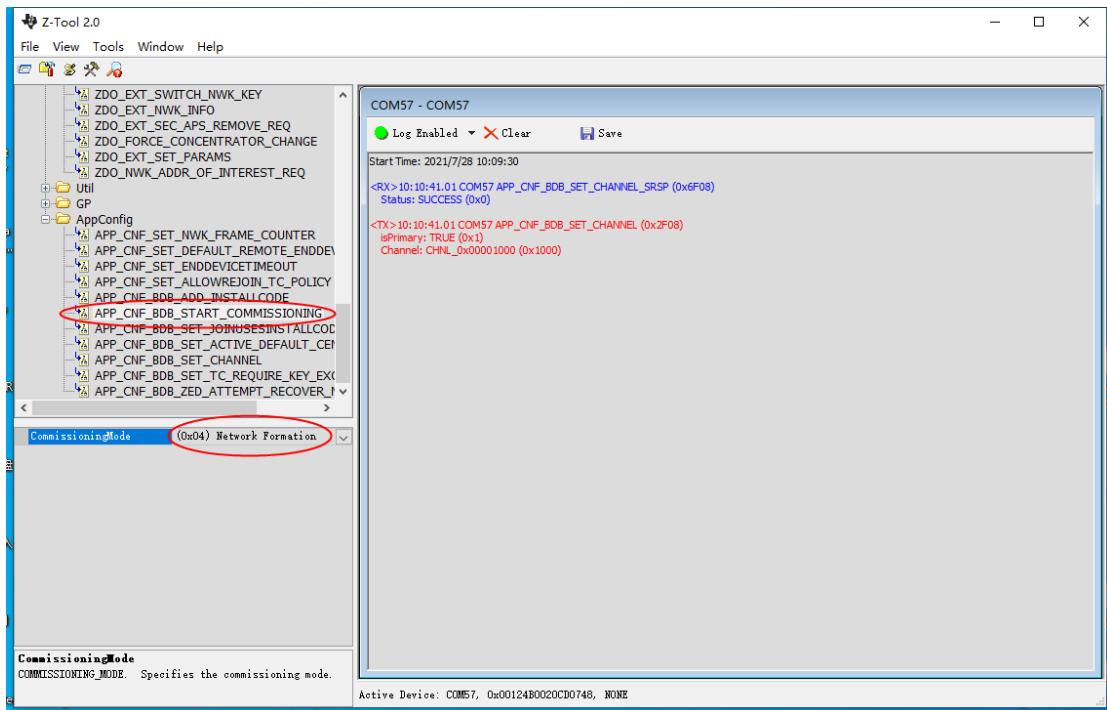
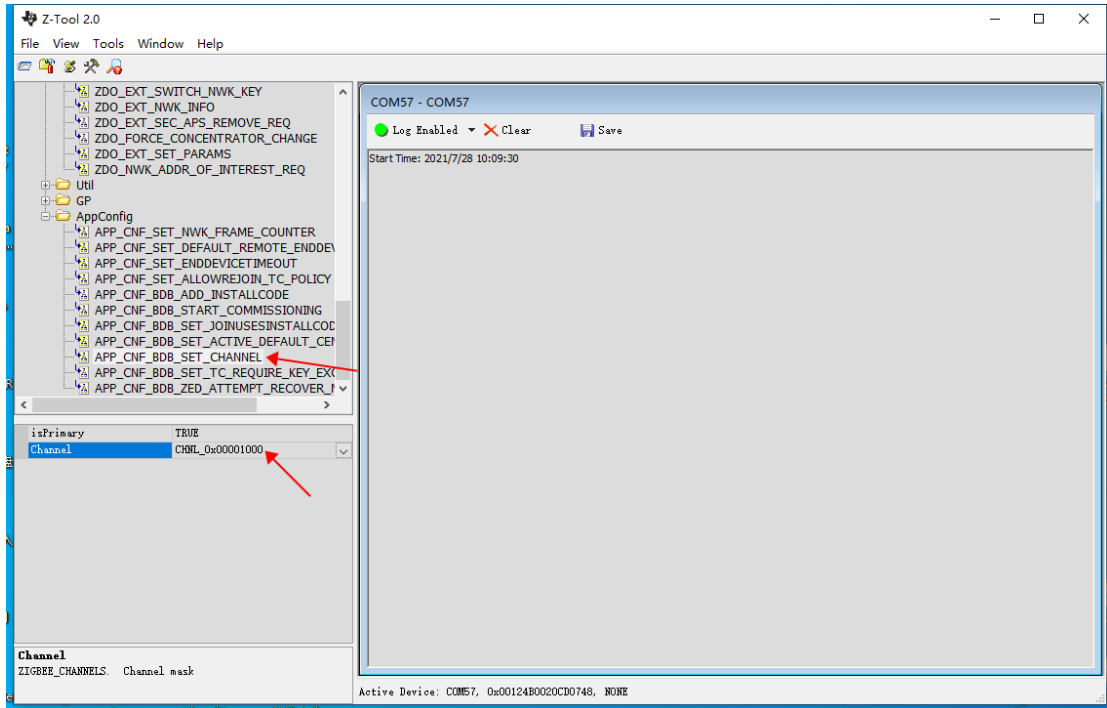
名称	描述	操作
SIMPLELINK-CC13X2-26X2-SDK – SimpleLink™ CC13x2 and CC26x2 software development kit	软件开发套件 (SDK) 支持的产品和硬件	下载选项 订阅通知
SIMPLELINK-CC13X2-26X2-SDK-CLOUD – SimpleLink™ CC13x2 and CC26x2 software development kit cloud development on TI Resource Explorer	软件开发套件 (SDK) 支持的产品和硬件	开始评估

2. execute the Z-Tool.exe

名称	修改日期	类型	大小
GlobalConfig.xml	2021/7/14 7:22	XML 文档	1 KB
TI.CommonLib.dll	2021/7/14 7:22	应用程序扩展	3,960 KB
TI.Config.xml	2021/7/14 7:22	XML 文档	4 KB
TI.MasterKeyListDev.xml	2021/7/14 7:22	XML 文档	2 KB
TI.ZCmdMatchings.dll	2021/7/14 7:22	应用程序扩展	20 KB
TI.ZPI.dll	2021/7/14 7:22	应用程序扩展	436 KB
TI.ZPI.xml	2021/7/14 7:22	XML 文档	5,107 KB
TI.ZPortLib.dll	2021/7/14 7:22	应用程序扩展	60 KB
TI.ZScript.dll	2021/7/14 7:22	应用程序扩展	40 KB
ZPI Help.chm	2021/7/14 7:22	编译的 HTML 帮...	5,235 KB
<b>Z-Tool.exe</b>	2021/7/14 7:22	应用程序	320 KB
Z-Tool.exe.config	2021/7/14 7:22	XML Configurati...	1 KB
ZToolConfig.xml	2021/7/14 7:22	XML 文档	1 KB
Z-ToolHelp.chm	2021/7/14 7:22	编译的 HTML 帮...	703 KB

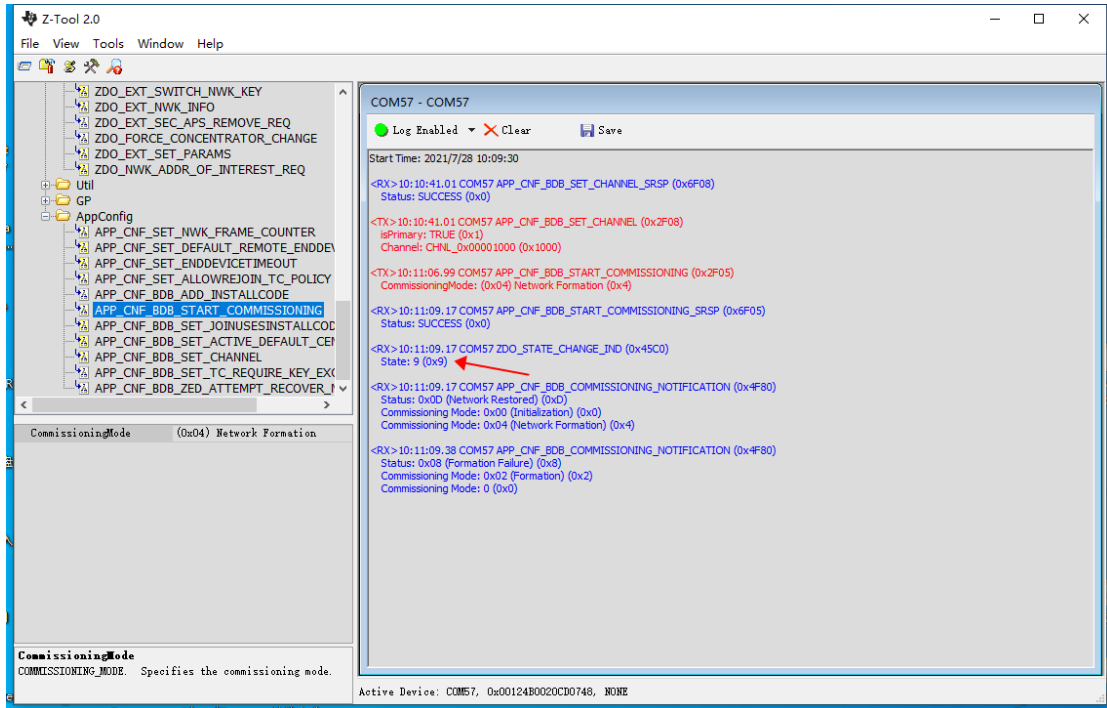
3. Set the serial port baud rate to 115200





4. 0x09 means establish network successfully





## 5. Open network, and add device

