深圳市瑞科慧联科技有限公司
Shenzhen Rakwireless Technology Co., Ltd

RAK473、476 Use guidance-How to use UART to upgrade

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V1.1

1. Use UART to upgrade

1.1 Summary

This section describes the two ways to upgrade the firmware through the serial port to the module.

Method 1: using Windows's hypertrm tool to upgrade the firmware；Method 2: using the BOOT RAK upgrade tool to upgrade the firmware.

1.2 Operating instructions

NOTE：

1.Through the MCU to send command to control module,The command statement ends with the character "\r\n"；

2.Through the serial port tool send command to control module,The command statement ends with the Enter；

3.For ease of viewing, the information sent back to the command is displayed in the ASCII code. If there is information that is not comprehensive or garbled, may have special characters return information,China text or other information,Then please display in sixteen.

Please remember the above, these are not repeated at the back of the document.

1.3 Use hypertrm to upgrade

1.Open the hypertrm and related configuration，To the module on power, boot to return Welcome to RAK473（Welcome to RAK476）。

2.Send update command（Picture 1-1），Enter upgrade mode.
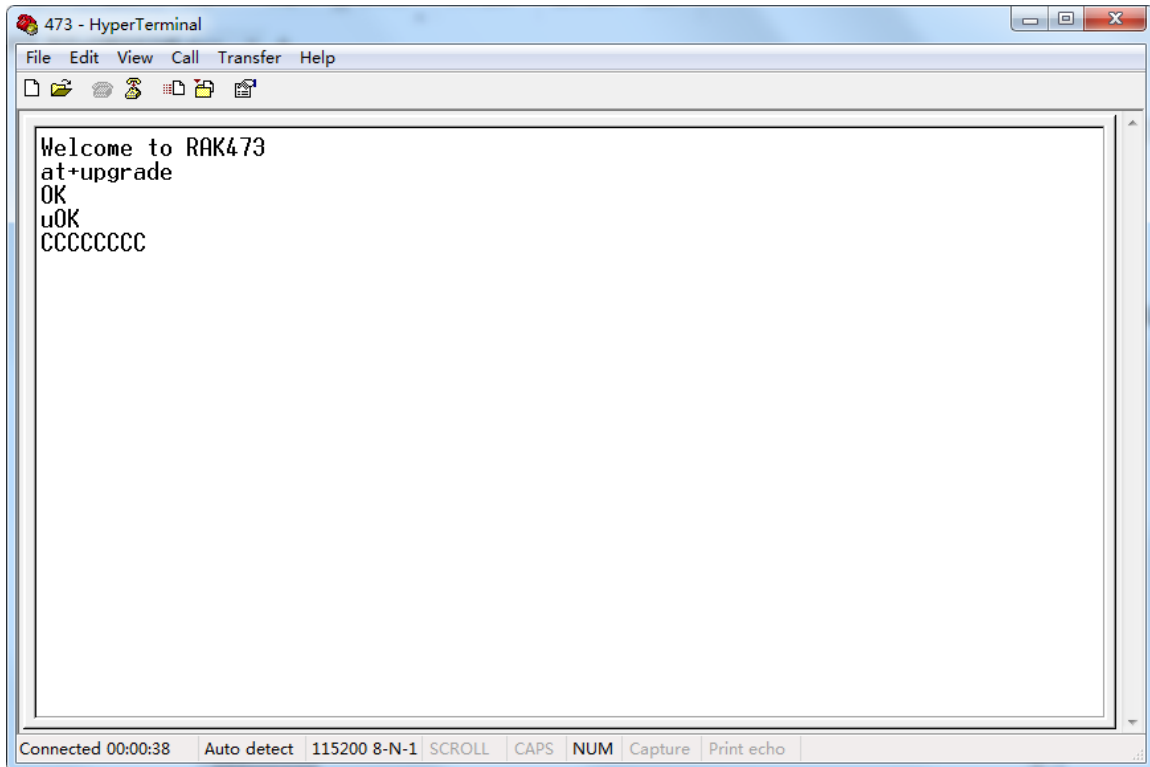
　　Send：at+upgrade\r\n

　　Retuen：OK

3.Send confirmation order，Confirm whether to enter upgrade mode successfully.
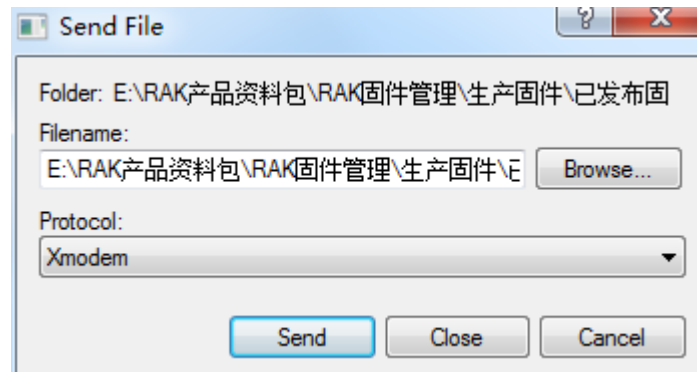
　　Send：u

　　Return：OK

　　　　CCCC…… （C description appears to have successfully entered the upgrade mode, you can send the next firmware）
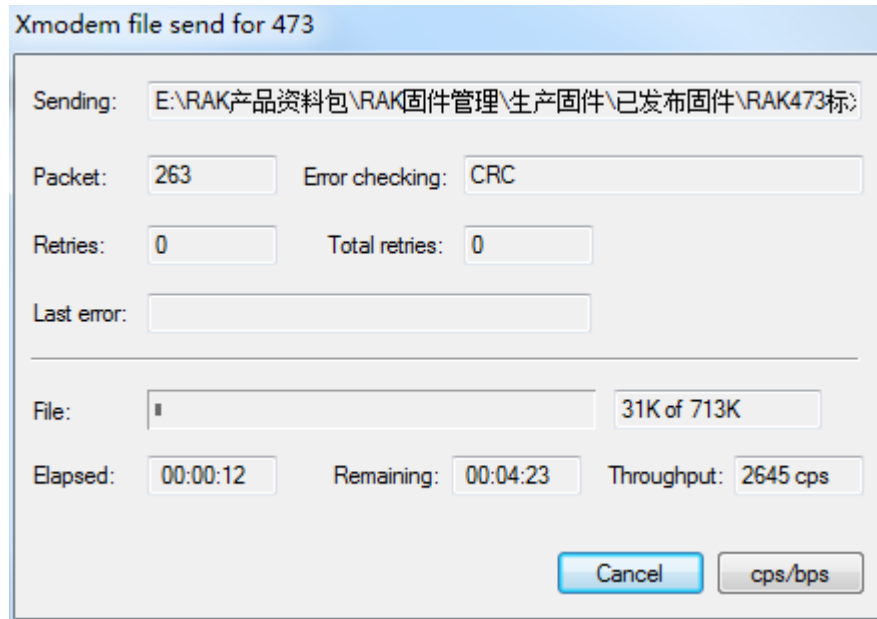
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Picture 1-1 Use hypertrm to enter the upgrade mode

4.Using Xmodem protocol to send the.Bin format of the firmware file，Set the method as shown in Picture 1-2.

Picture 1-2 Send file settings

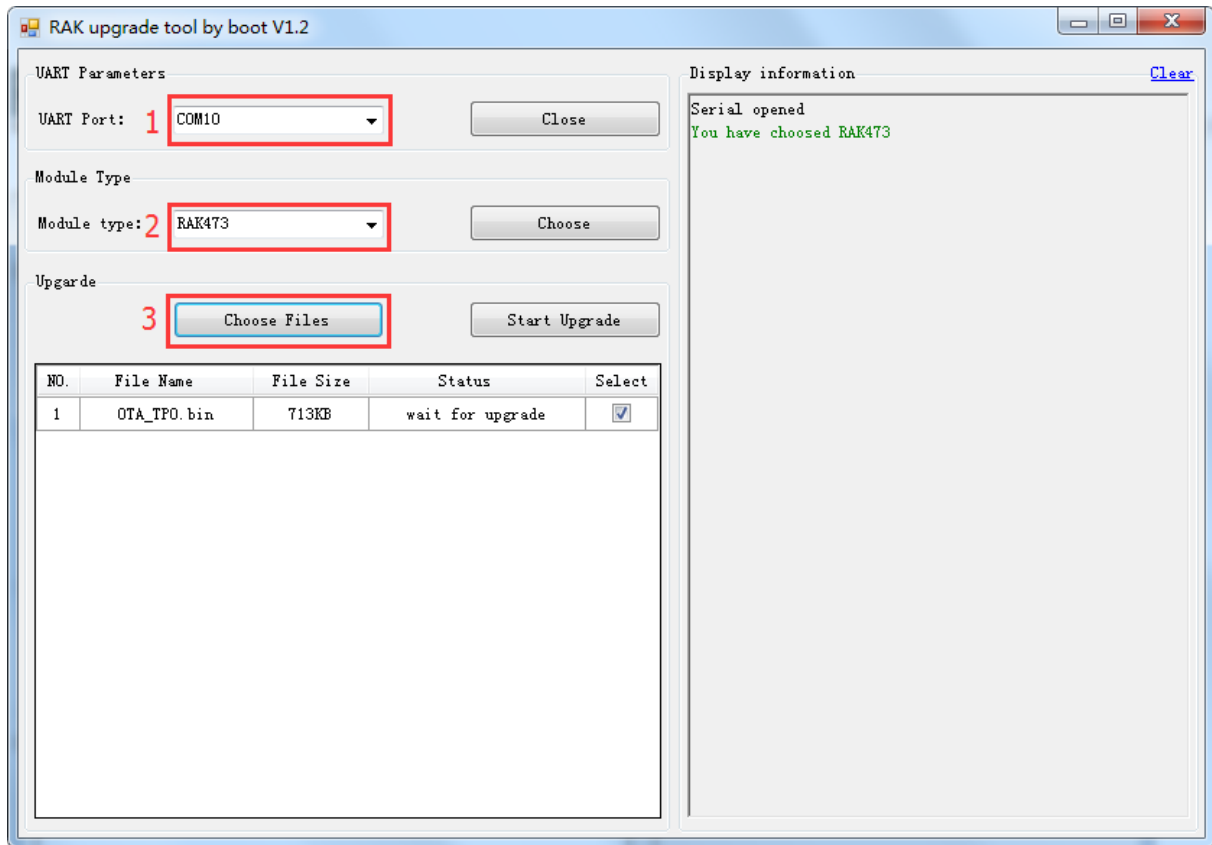4. Send firmware process as shown in Picture 1-3，Waiting for the completion of the completion of the.

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Picture 1-3 Wait for the upgrade to complete
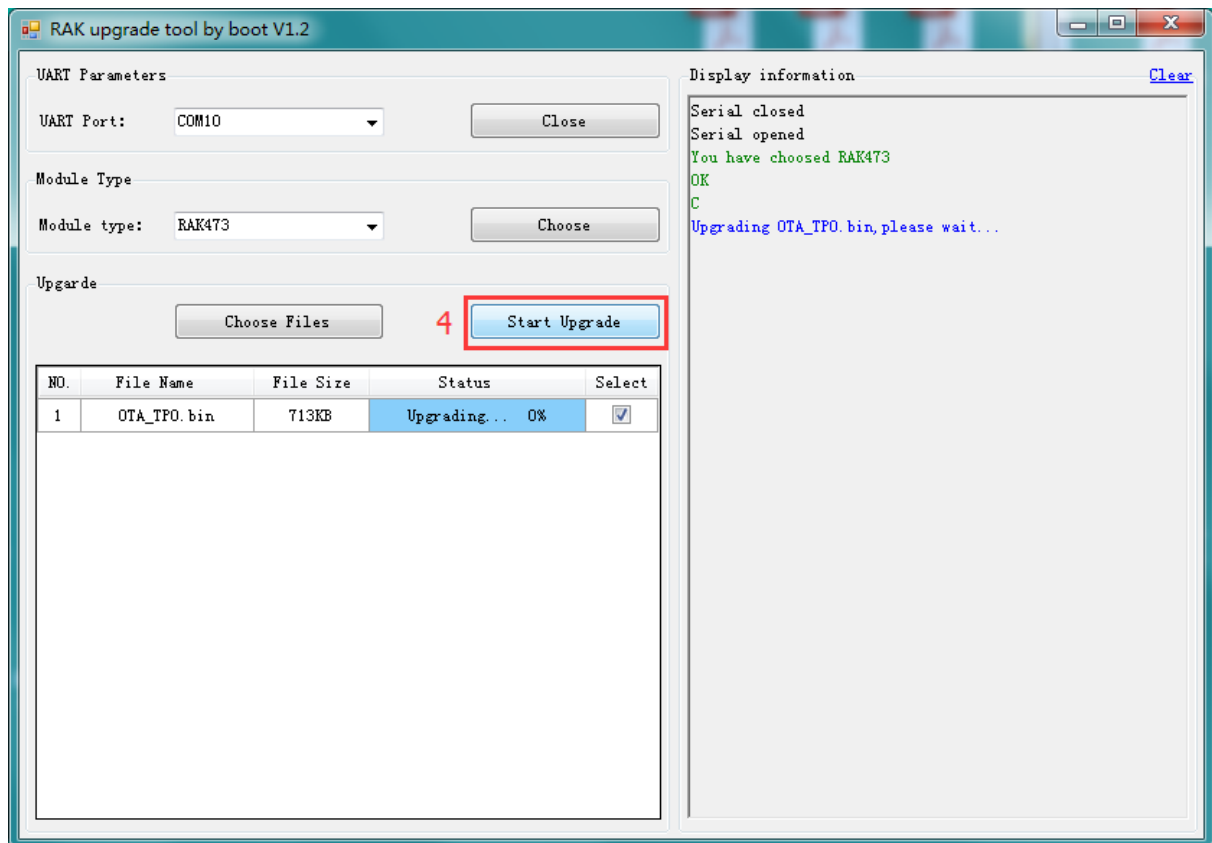
1.4 RAK BOOT upgrade tool to upgrade

1.Connect to the serial port.

2.According to Picture 1-4 shown in turn to select or click on a few items. On the right side of the box with information related to the prompt.

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Picture 1-4 RAK BOOT Upgrade tool operation procedure

Picture 1-5 RAK BOOT Upgrade tool upgrade process

2. Modify record

Version	Author	Time	Modify content
V1.0	王连博	2016/02/02	Create documents
V1.1	操小成	2016/09/24	Update document