

RAK473/476 Use Guidance

Test Module Communication Speed

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1. Test Module Communication Speed

1.1 Overview

In this part, it is introduced how to test the communication speed of the module, taking the 473 module in the case with baud rate of 115200 bps as an example.

1.2 Operation steps

1. Configure the module into STA mode, create TCP Sever with the port as 25000, and close the serial port of the tool after the configuration is completed. Configuration method is shown in Figure 1-1, and it can also be configured with the command referring to part of "RAK473 (476) Guidance - Using TCP to communicate".

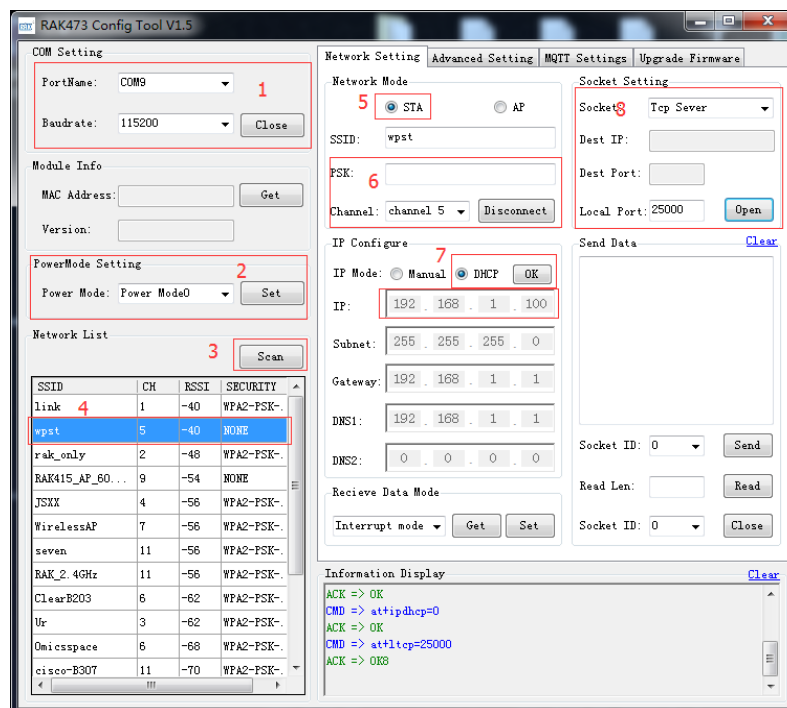


Figure 1-1 Configure the module in STA mode and create TCP Sever

2. The PC and module join in the same network, to create the TCP Client corresponding to the module with TCP&UDP test tool and open the connection.

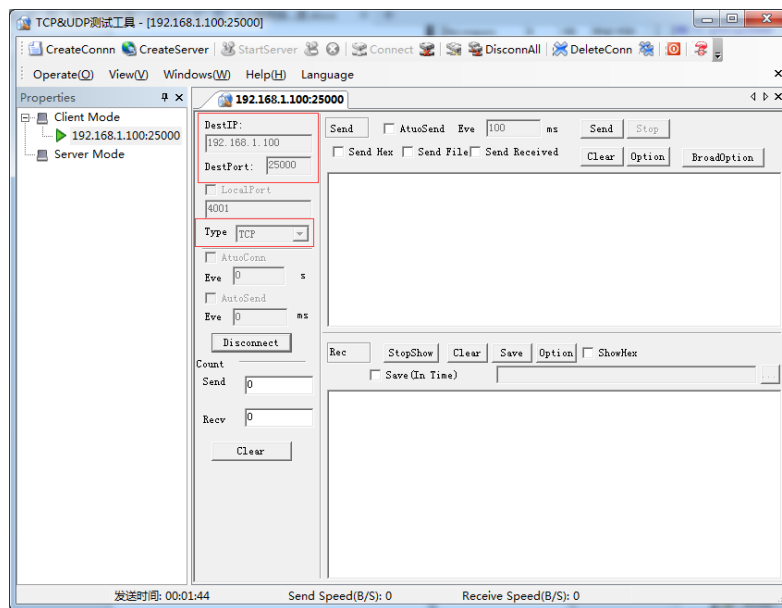


Figure 1-2 Create the TCP Client with TCP&UDP test tool

3. Send a command accessing "Data mode" with the serial port tool.

Send: `at+data_mode\r\n`

Return: OK

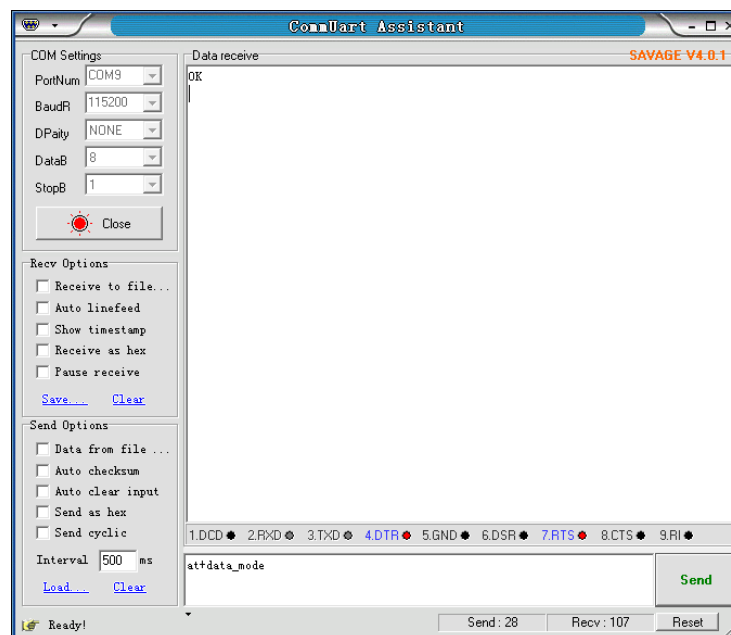


Figure 1-3 Access "Data mode"

4. Test the swallowing speed of the module, namely, send data from the test tool to the serial port tool; here a TXT text with a size of 2 MB is sent.

(1) Check the "Send File" select box, and check the file to be sent in the dialog box of the selecting file path popped up.

(2) Click "Send" button to start sending data.

(3) View the swallowing speed of the module at position 3.

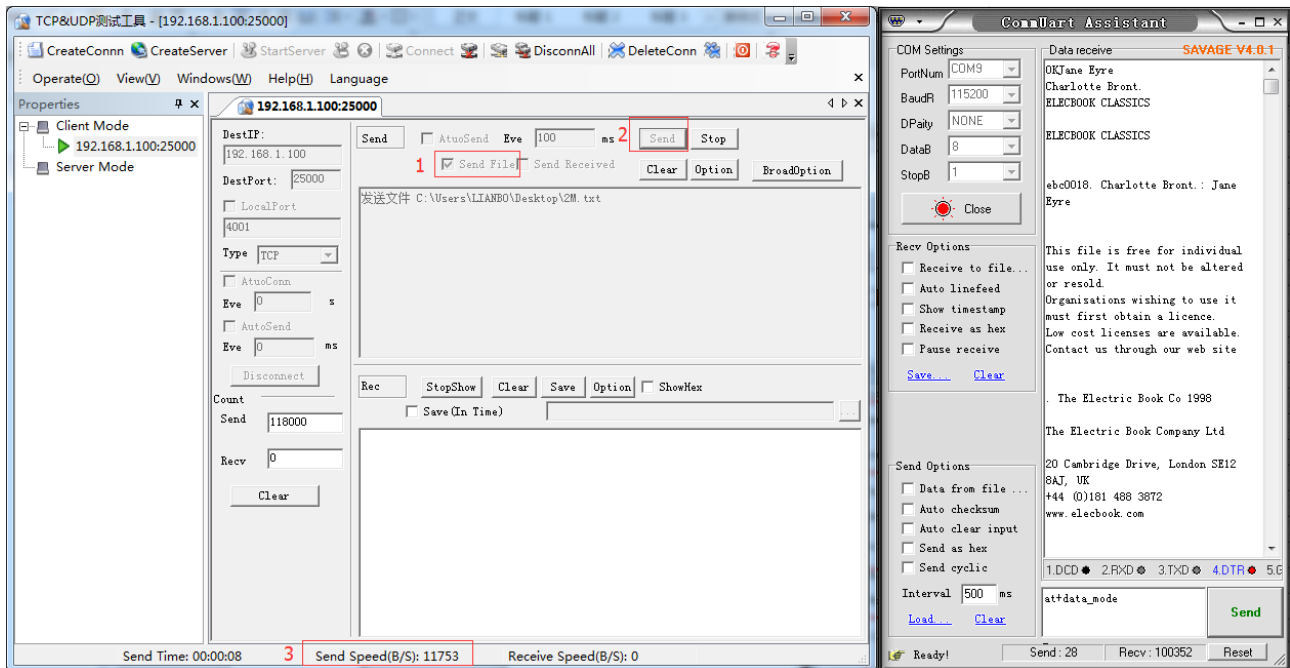


Figure 1-4 Test the swallowing speed of the module

5. Test the spitting speed of the module, namely, send the data from the serial port tool to the test tool; here a TXT text with a size of 2 MB is sent.

- (1) Check "Data from file" select box, and check the file to be sent in the dialog box of the selecting file path popped up.
- (2) Click "Send" button to start sending data.
- (3) View the spitting speed of the module at position 3.

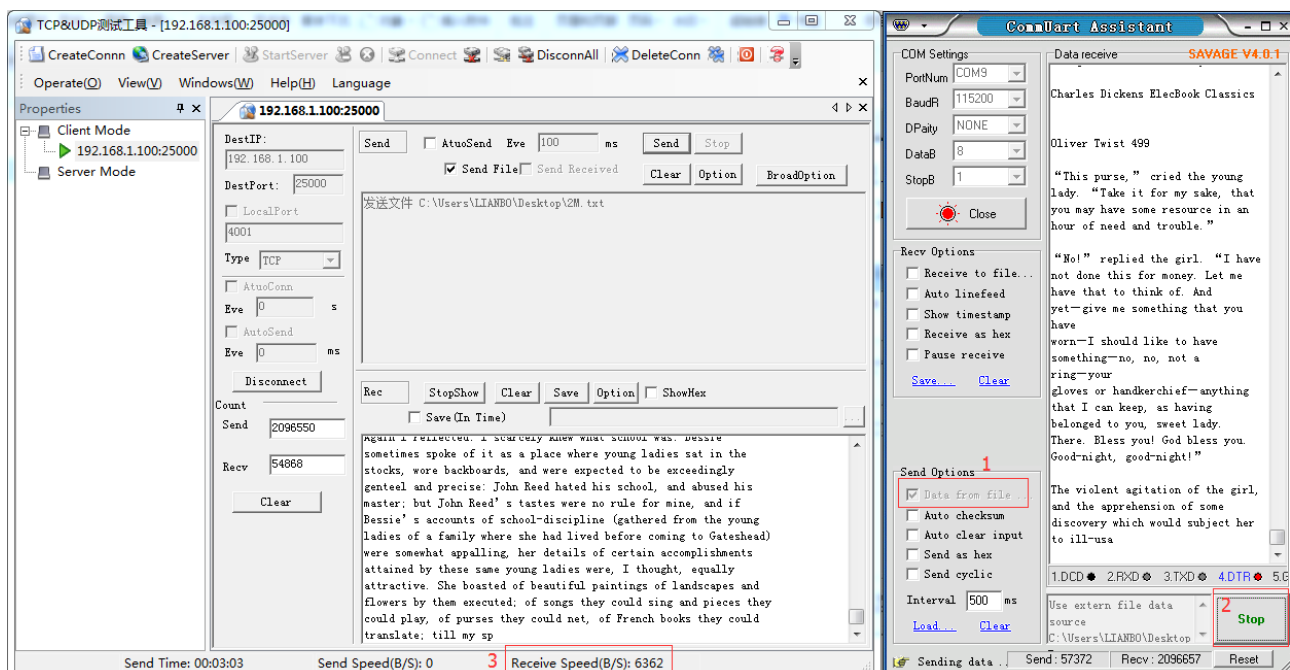


Figure 1-5 Test the spitting speed of the module

Version

Version	Author	Date	Content modification
V1.0	Lianbo Wang	2016/02/16	Create a document
V1.1	Xiaocheng Cao	2016/11/26	Modify some of the details