

RAK475/477 Use Guidance

One-Tap Router Configuration

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1. One-Tap Router Configuration

1.1 Overview

This section describes how to use the One-Tap Configuration function of the mobile app to quickly configure the module to a specified router.

1.2 Operating instructions

Tips:

1. This demo is done on the RAK475 development board.
2. The module in this demo is under factory settings.
3. When sending command to control the module via MCU, enter “\r\n” to complete the command;
4. When sending command to control the module via the serial port tool, press Enter to complete the command;
5. For ease of viewing, the information returned by the send command is presented in ASCII value. Special characters or Chinese characters in the returned information might result in the information being partially displayed or unreadable. In these cases, please view the returned information in hexadecimal form.

Please keep in mind the abovementioned points, for they will not be mentioned later.

1.3 Steps

1.3.1 Entering One-Tap Configuration Mode

There are two ways for the module to enter One-Tap Configuration Mode. Once entered, the **Link indicator** light of the module will start quick flashing.

Method 1:

1) Enabling Assistant Command

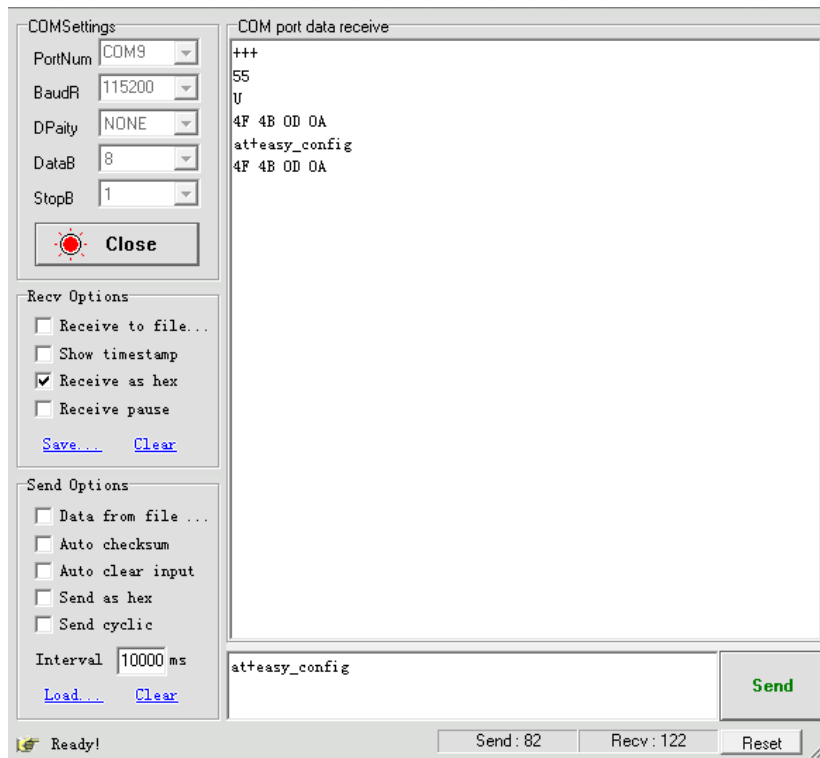
Enabling the assistant command interface in Transparent Transmission Mode is done in a similar way to “handshake”. As shown in Figure 1-1.

1. The host computer (master MCU) requests to enter Command Mode by sending “+++”.
2. Set the timer for 200ms and wait for the module to return a “U” (0x55) within this specified time. If the module did not return a “U” when the timer expires, send “+++” again until a “U” (0x55) is returned. Now the module is ready to enter Command Mode, it is waiting for the final confirmation (wait for 3s).
3. After receiving the “U” (0x55), the host computer (master MCU) has to send a “U” (0x55) to the module as the last confirmation message within 3 seconds. If the module successfully received the confirmation message, it would return an “OK” and enter Command Mode. Otherwise, the module would exit the READY status and would be waiting for the next REQUEST command. In this case, repeat steps 1-3.

2) Enter Command Sequence & One-Tap Configuration Mode

Send: at+easy_config\r\n

Return: OK



Method 2:

Press the **Default** button on the development board and the module will enter One-Tap Configuration Mode.

1.3.2 Starting One-Tap Configuration

- 1) Connect the phone to the specified router.
- 2) Open the One-Tap Configuration app and enter the password for the router if it is encrypted, as shown in Figure 1-1.

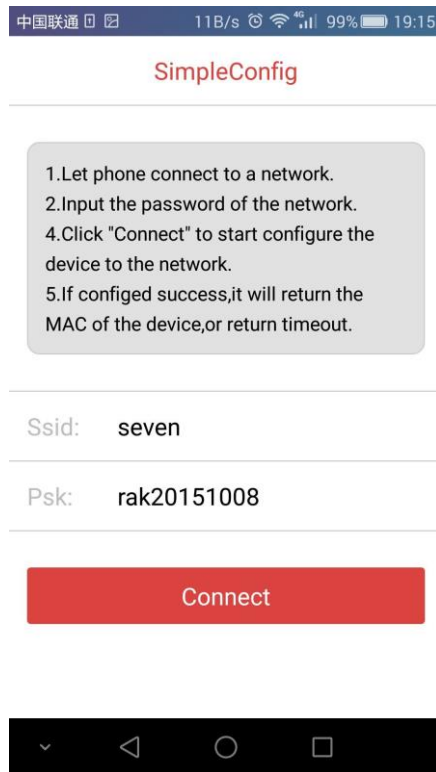


Figure 1-1: One-Tap Configuration App Interface

- 3) Tap **Connect** to start one-tap configuration, send AT commands or press the **Default** button on the development board to enter One-Tap Configuration Mode and wait for the configuration process to complete. Once the configuration is done, the app will return the MAC address of the module, as shown in Figure 1-2.

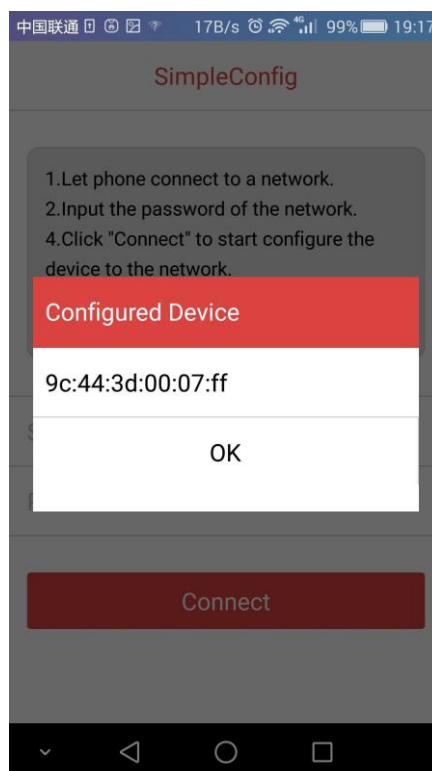


Figure 1-2: APP One-Tap Configuration Successful

Version

Version	Author	Date	Content modification
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