

# RAK473/476 Use Guidance Create AP Network

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#### 1. Create AP Network

#### 1.1 Overview

In this part, it is introduced how to open AP of the module, that is to say, 473 and 476 modules will not generate AP automatically after powering up, which needs the following operation.

#### **1.2** Operating instruction

#### Tips:

- 1. When the command control module is sent via MCU, the characters "\r\n" are as the ending characters for the command;
- 2. When the command control module is sent via the serial port tool, press the Enter key as the ending character for the command;
- 3. The information returned following the command can be presented in ASCII code for easy viewing. If the information display is not comprehensive or garbled, there may be special characters, Chinese characters and so on in the returned information, so please view in the hexadecimal form.

Please bear in mind the points above, which will not be repeated any more.

### 1.3 Steps

AP hot point information to be created is as follows: (All of the information can be set by oneself)

Channel: Channel 1
AP name: rak\_ap

AP password: rakwireless

Way of encryption: WAP2-PSK-CCMP

Module IP address:192.168.9.4

Country code: CN

#### 1.Power up the module

Return: Welcome to RAK473(Welcome to RAK476). The returned information can also be viewed in hexadecimal system form(57 65 6C 63 6F 6D 65 20 74 6F 20 52 41 4B 34 37 33 (36) 0D 0A).

2. Open ASCII display of the module

Send: at+ascii=1\r\n Return: 4F 4B 0D 0A

3.Send the command for setting the channel.

Send: at+channel=1\r\n Return: 4F 4B 0D 0A

4. Send the command for setting AP password, and set the password of wireless access point to be created.

Send: at+psk=rakwireless\r\n

Return: 4F 4B 0D 0A

5.Send the command for creating SSID, to create a wireless access point for the module with the name of "rak\_ap".

Send:  $at+ap=rak_ap\r\n$ 



返回: 4F4B0D0A

6.Send the command for setting static IP, to create static IP for the module

Send: at+ipstatic=192.168.9.4,255.255.255.0,192.168.9.1,0,0\r\n

Return: 4F 4B 0D 0A

7. Send the command for setting DHCP SEVER mode to open DHCP SEVER. (Figure 1-1)

Send: at+ipdhcp=1\r\n Return: 4F 4B 0D 0A

8. At this point, creating AP network is successful. The function application can be realized by connecting the module AP via mobile phone or computer. (Figure 1-2)

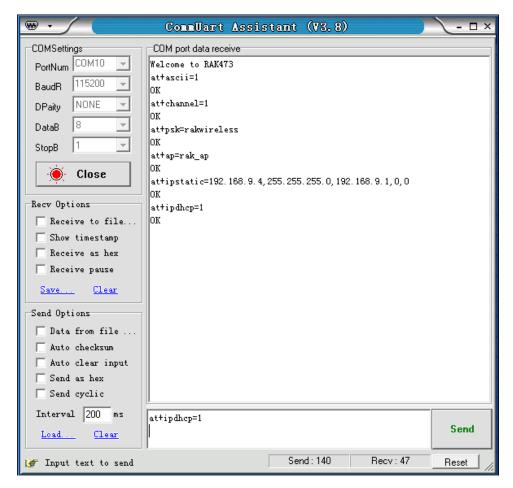


Figure 1-1 Create AP Network





Figure 1-2 Module AP



## Version

Version	Author	Date	Content modification
V1.0	Lianbo Wang	2016/02/02	Create a document
V1.1	Xiaocheng Cao	2016/09/30	Modify some of the details