

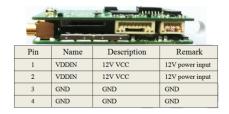
How to config network parameters and Pair the Module

This document is only using for Flylink HD and Flylink AV .

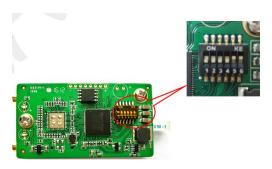
Flylink HD: RAK566(TX) and RA554(RX). Flylink AV: RAK553(TX) and RAK554(RX).

RAK5610 is same with RAK554 including firmware and Hardware.

1 RAK554 PIN Definition



2 RAK554 Dip switch definition



There are 6 group Dial-up in the module. ON direction is showing low-level, marked as 0. When The Dial-up is on the opposite direction, that is showing high-level, marked as 1. The dial-up flag order is 1-6, marked as sw1-6.

The function definition is followed:

Sw6	Sw5	Band	Channel	Band
1	1	4	149	5745
1	0	1	48	5240
0	1	1	36	5180
0	0	4	165	5825

The default band is Band4. That is to say channel 149.

Sw1 is using for WPS function . If you want to use this function , you need do the following steps.

Step1: Whatever the SW1 level, set SW1 into low-level more than 1 second.

Step2: Then Set SW1 into high-level.

Step3: The Wifi light will blink.that is showing you have step into the WPS mode.

After power on the module, please scan the AP: FS_5G_AP_xxxxxx or Flylink_xxxxxx(please make sure your smartphone supporting 5G SSID) . X means MAC address.



3 How to change SSID and PSK

RAK553 will work as **OPEN** network .if you have to change the SSID and PSK .please following the steps strictly. Note: Once you change the network parameters, you have to make a new connection with Transmitter. Please reference the **PART 5**.

Step 1: Power on RAK553.

Step 2: Waiting for the Blue LED turn on and that means the restart completed.

Step 3: Scan and connect the AP with your 5G WIFI device, such as phone, pad, or PC.

Step 4: Open broswer and input the following HTTP command in the address bar and Enter . you need to input the user and password which both are admin. If you get the "value" : 0", that means the configuration succeed.

HTTP Command: **Encryption**:

192.168.100.1/param.cgi?action=update&group=wifi&ap_ssid=RAK_5G_AP_XXXXX%20%23=BR ING&ap_auth_mode=WPA2PSK&ap_encrypt_type=AES&ap_auth_key=RAK12345 Function:

Change the network to WAP2 encryption and a new SSID.

Key point(Red words):

IP address : 192.168.100.1. Must be 192.168.100.1!

SSID: RAK_5G AP XXXXX. Change to what you want ,such as SMD_5G_AP_CC566A. we can only support the following chars. but we suggest you' d sue the letters and numbers .

./abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ_-+=&1234567890@[]?%#

PSK: RAK12345. Change to what you want ,such as 1234567890. the length must be in the range from 8 char to 32 char. we can only support the following chars.

./abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ_-+=&1234567890@[]?%# Note: please don't change any other words!

HTTP Command: Open:

192.168.100.1/param.cgi?action=update&group=wifi&ap_ssid=RAK_5G_AP_XXXXX%20%23=BR ING&ap_auth_mode=OPEN&ap_encrypt_type=NONE

Change the network to **OPEN** mode and a new **SSID** .

Key point(Red words):

Function:

IP address : 192.168.100.1. Must be 192.168.100.1!

SSID: RAK 5G AP XXXXX. Change to what you want ,such as $SMD_5G_AP_CC566A$. we can only support the following chars.but we suggest you'd sue the letters and numbers . ./abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ_-+=&1234567890@[]?%#

Note: please don't change any other words!

4 Example

Change the network to **OPEN** mode and a new **SSID**: **SMD_5G_AP_CC566A** . Command:



192.168.100.1/param.cgi?action=update&group=wifi&ap_ssid=SMD_5G_AP_CC566A\%20\%23=B RING&ap_auth_mode=OPEN&ap_encrypt_type=NONE

Input the command in Broswer and input the user and password with admin.

需要进行身份验证 http://192168.100.1 要求提供用户各和密码。 ②与此网验建立的不是私密连接。
用户名: Madmile

HTTP Successful Return:



5 Make new Pair

5.1 Transmitter (STA): RAK566.

Step1: Power on RAK566 waiting the board blink or lighting more than 10 seconds.

Step2: Power on RAK554(RX) and waiting for blue LED turn on . Toggle Receiver's DIP switch PIN1 to Low-Level more than 1 second and then Toggle to High-Level .The blue LED will be quick flashing. The Receiver have run into WPS Pair mode .

Step3: Press the button in the red circle 3 seconds and leave . the blue LED will be quick flashing. The Receiver have run into WPS Pair mode . If not ,please try again .



Step4: Waiting for the Transmitter blue LED turn on more then 10 seconds. That means the configuration have completed.

5.2 Transmitter (STA): RAK553.

Step1: Power on RAK553 waiting the board blink or lighting more than 10 seconds.

Step2: Power on RAK554(RX) and waiting for blue LED turn on . Toggle Receiver's DIP switch PIN1 to Low-Level more than 1 second and then Toggle to High-Level .The blue LED will be



quick flashing. The Receiver have run into WPS Pair mode .

Step3: Same operation with Step2 on the Receiver.

Step4 : Waiting for the Transmitter blue LED turn on more then 10 seconds. That means the configuration have completed .

6 Enclosure

Android APP: https://www.pgyer.com/camsight

IOS APP: Search in APPLE STORE with camsight sport and install.

Document Center:

www.rakwireless.com/en/download

wiki.rakwireless.com/doku.php

Support Center:

supporten.rakwireless.com/

Website:

www.rakwireless.com

APP SDK Source code(rakvideo):

www.github.com/rakwireless