

# Toymail Talkie RF Tune up procedure

1、 model name: Talkie

2、 Test equipment:

PC (Figure 1-1-1)、Litepoint IQ Flex (Figure 1-1-2)、Power Attenuator (Figure 1-1-3)、Coax cable (Figure 1-1-4)、IPX-SMA RF coax cable (Figure 1-1-5)、USB cable (Figure 1-1-6) .



Figure 1-1-1 PC



Figure 1-1-2 Litepoint IQ Flex



Figure 1-1-3 Power Attenuator (30dBm)



Figure 1-1-4 Coax cable



Figure 1-1-5 IPX-SMA RF coax cable



图 1-1-6USB power cable

3、Test software: WIFI RF power calibration characteristics and Test procedures

4、Test process:

- A、Connect the PCB with the USB cable; Cut PCB trace between RF Module and Antenna, Solder IPX-SMA RF coax cable to RF Module
- B、Install the power attenuator on the IQ FLEX input
- C、Connect RF output to the power attenuator with the Coax cable and IPX-SMA RF coax cable
- D、Power on the test system
- E、Turn on WIFI RF power calibration characteristics and Test procedures on PC
- F、Test program will automatically call the IQ calibration function, adjust the module RF characteristics and power parameters

5、Throughout the the progress , IQ FLEX will adjust all the power and EVM of the center frequency under the protocol

6、After the receiving channel test, the module compliance the test program.

Test Mode :802.11b output power level:  $12 \pm 1\text{dBm}$  (Average)

Test Mode :802.11g output power level:  $12 \pm 1\text{dBm}$  (Average)

Test Mode :802.11n output power level:  $10.5 \pm 1\text{dBm}$  (Average)

7、Now all the test are completed, under all the center frequencies the transmission power and receiveing channels are OK

Note: user can't modify the module output power setting.