

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)

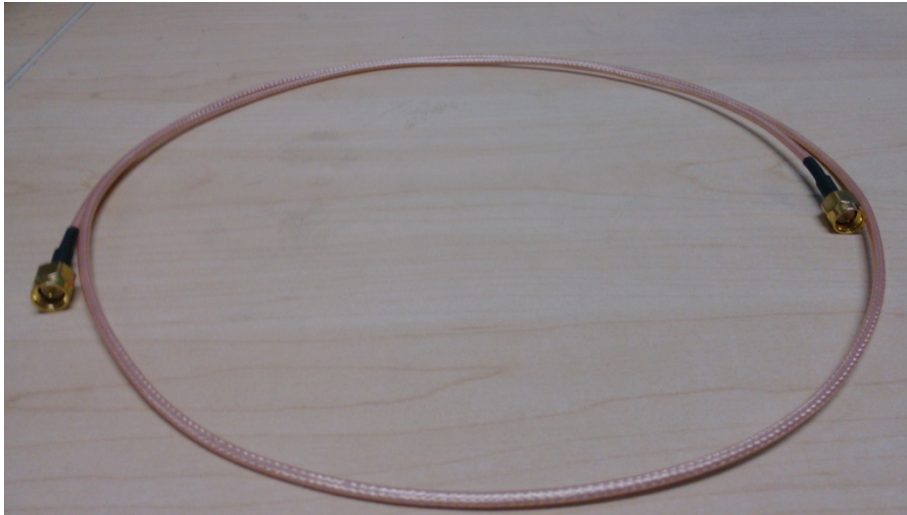


Figure 1-1-4 Coax cable

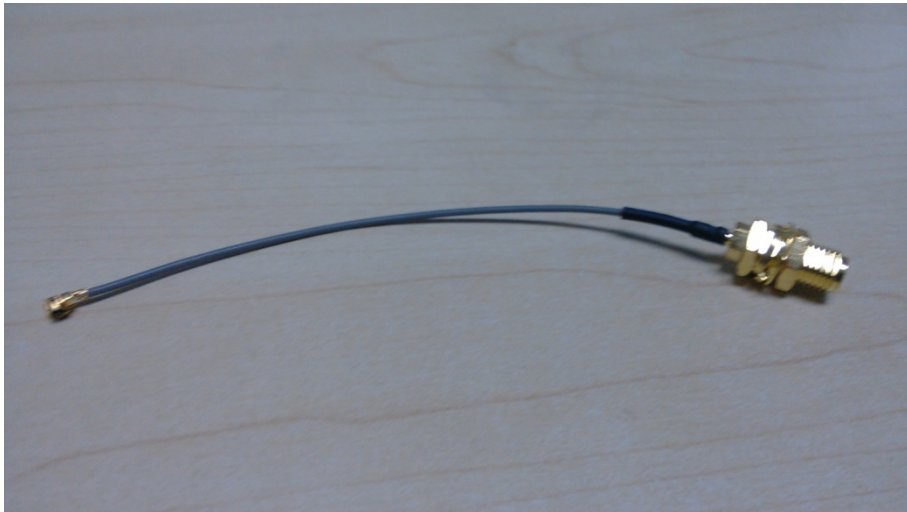


Figure 1-1-5 IPX-SMA RF coax cable



图 1-1-6 USB 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 ± 1 dBm (Average)
Test Mode :802.11g output power level: 12 ± 1 dBm (Average)
Test Mode :802.11n output power level: 10.5 ± 1 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.