

Description of Bluetooth Speaker Operating Principle

Power Supply

- A. Battery: system is supplied power by Li-polymer battery, the nominal voltage is 3.7 V; the voltage of the battery will be 4.2 V after fully charged, it will down to 3.2 V or so after the power is drained.
- B. Circuit of Charge: the outer DC5V connects to D4 by MICRO-USB and to charge the Li-polymer battery.

E PROM Storage

E PROM U3 is used to store the parameter setup in advance by earphone.

Crystal Oscillator

Crystal oscillator provide the frequency of sending and receiving radio frequency.

Antenna

Making use of Meander Line Antenna as the antenna, aerial impedance matching circuit is made up of C2、 L1、 L2.

Audio Circuit

- B. Unit of Music: output from the feet 1、 6 of chip IS1621N-152 to audio power amplifier IC U2, and amplified through U5 and output by speaker.

Circuit of Keystoke

- A. S4 On/Off : power on and into the pair mode, and power off..
- B. S1 Play/Pause : Play music and Pause the music inducing the Bluetooth mode.
- C. S2 Vol+: Volume up and Next song in Bluetooth mode.
- D. S3 Vol-: Volume down and Reverse song in Bluetooth mode..