

## **The brief introduction of the circuit of the Mini Boombox (F-00003)**

1. BTP501 is a module for Bluetooth 2.4GHz, 16Mbit of internal Flash memory: When used with CSR Bluetooth stack.

It provides a fully compliant Bluetooth system to V2.1+EDR of the specification for data and voice.

2. U1 is used for charging Li-ion battery (3.7V), input is USB DC5V.

3. U6 is a Class-D amplifier, used for drive the speaker.

4. U3 is an OP. Used for analog audio amplifier.

5. U7 is a LDO, and output is 3.3V, used for power supply Bluetooth module.

6. U4 is used for step up type DC to DC from 3.7V to 5V, power supply U3.U6

7. U9 is touch sensor IC for POWER ON, POWER OFF, VOLUME UP & DOWN, etc.

8. U5, U8 is audio source change IC.

9. Q1, Q2, Q3, Q4, Q11 is used for power on, and Q16 is used for power off.

10. Q5 is for mute.

11. The crystal is 26MHz and the antenna is internal, the antenna gain is 1.0dBi.