Circuit Description

The device uses IC AB5605E as the control center to process audio and BT protocol. The audio is processed by IC AB5605E and output to power amplifier XA9912D for amplification, driving the speaker to produce sound. This device uses a 26MHz crystal oscillator. BT8916A2 supports BLE, and it also used as a wireless microphone receiver and uses a 24MHz crystal oscillator. 4054 is the charging management chip responsible for charging the battery, while CS5008 provides a stable DC5.0V voltage for the LED

RF Chip: AB5605E (Only support BDR, EDR), BT8916A2 (Only support BLE 1M)

Operation Frequency: 2402~2480MHz

Number of Channel: 79 Channel (BDR, EDR), 40 Channel (BLE)

Modulation: GFSK, π/4-DQPSK, 8DPSK(BDR, EDR); GFSK (BLE)

Antenna Type: BT/BLE ANT: PCB onboard

Antenna Gain(Peak): BT/BLE ANT: 1.7dBi

Power Supply：DC 5V from USB port or DC 3.7V from battery