

Circuit Description

1. This machine is a pure Bluetooth speaker, built-in lithium battery, a charging port, the charging port can charge the built-in lithium battery.
2. The speaker through the external adapter charging, charging (input DC5V), charging chip U8(4056H) work, can charge the battery. The battery voltage is between 3.3V and 4.2V, which allows the speaker to work normally.
3. the speaker by long press the button, control the speaker startup and shutdown.
4. Bluetooth receives signals through an antenna

After starting up, power supply to the main control chip U4 (AB5605C), with 26MHz crystal oscillator Y2 involved in the work, so that the main control can work normally, start up, the speaker enters the Bluetooth mode, the speaker is waiting to connect, the main control chip U4 (AB5605C) will send out a 2.4GHz signal through the antenna, and send out a Bluetooth name. The user can search and connect the speaker through the mobile phone, after the connection, the mobile phone can play music, through the Bluetooth wireless connection, the signal is sent to the speaker, the signal received by the main control chip U4 (AB5605C) is converted into audio signal, and output to the power amplifier chip U1 (MIX2018), the audio signal is amplified by the power amplifier, through the wire, and transmitted to the speaker. So that the horn work, make a sound.

Bluetooth chip: AB5605C

Crystal oscillator: 26MHz

Battery voltage: 3.7V

Antenna gain: -0.58dBi

Antenna type: PCB antenna

Modulation mode: GFSK, $\pi/4$ -DQPSK, 8DPSK

Frequency Range: 2402~2480MHz