

Circuit Description

This product is a Bluetooth speaker that can be connected via Bluetooth, which includes charging management chips, Bluetooth chips, power amplifier chips and other parts.

1. The charging management part is input 5V by USB, and after stepping down to 4.2V by 4054, it will charge the lithium battery, and the lithium battery will supply power to the MCU, Bluetooth high-frequency processor, and power amplifier.
2. The Bluetooth chip AC6969D receives and transmits RF signals through the 6-pin antenna of the Bluetooth IC to pair with other Bluetooth devices. After the audio received by Bluetooth is processed, it is output from the 16-pin of the Bluetooth chip to the power amplifier HT8731B to amplify and output the speaker to make a sound.
3. Receive the high-frequency signal through the antenna, enter the interior from the 5th pin of the main chip to demodulate the audio signal, and then output the 16th pin of the main chip to the power amplifier HT8731B to amplify the output and push the speaker to make a sound

Frequency Range: Bluetooth: 2402~2480MHz

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