

## Circuit Description

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

1. The charging management part is to input 5V from USB, and then reduce the voltage to 4.2V through 4054 to charge the lithium battery. The lithium battery supplies power to the MCU, Bluetooth high-frequency processor, and power amplifier.
2. The Bluetooth chip receives and transmits RF signals through the 6-pin antenna of the Bluetooth IC to be paired with other Bluetooth devices. The audio received by Bluetooth is processed and output by pin 16 of the Bluetooth chip to the amplifier MIX2018A amplification output to push the speaker to produce sound.

MCU: AC6969D

Crystal: 24MHz

Frequency Range: 2402-2480MHz

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