

# Operational Description

This product is a Bluetooth speaker that can be connected via Bluetooth, which includes MCU, Bluetooth high-frequency processor, power amplifier chip and other parts.

1. TYPE-C-USB inputs 5V, which is filtered by electrolytic capacitors and then supplies power to the MCU, Bluetooth high-frequency processor, and power amplifier.

2. The Bluetooth chip receives and transmits RF signals through the antenna of the Bluetooth IC to be paired with other Bluetooth devices. The audio received by Bluetooth is processed and output of the Bluetooth chip to the power amplifier to amplify the output and push the speaker to produce sound.

1. The device is a Bluetooth Speaker
2. The oscillator: 24MHz
3. The RF chip is AC6965E
4. Frequency range: Bluetooth 2402~2480MHz
5. Antenna installation: PCB Printed Antenna
6. Antenna gain:-0.58 dBi
7. Type of modulation is GFSK,  $\pi/4$ -DQPSK, 8DPSK
8. Voltage Range: DC 3.7V from battery or DC 5V from USB