

# Circuit Description

## 1. Power

DC 3.7V from battery or DC 5V from USB port

## 2. Main components

Main chip QFN52L and FM 5807M lcd TF card slot (FM only has RX)

## 3. Main chip

QFN52L, Y1 is 24MHZ

## 4. Working principle

The product is using QFN52L master chip as the control center, processing audio signals and Bluetooth protocol. The MCU in the main control chip drives the TFT screen, and the audio signal output by the main control chip is amplified by the audio amplifier Q59014 to drive the sound from the headset. The main control chip contains a memory SIP, and software data is burned in the SIP. 3.7V lithium battery supplies power to the product through D1 D2 5819.

## 5. Specifications

Operating temperature: -20°C - 85°C

frequency: 2402-2480MHZ

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