

## Product illustration

### 1、system introduce

JH-104 FM Stereo Transmitter is especially designed as an electronic accessory in car. Complete with iPod/DVD/MP3/MP4, etc. You can enjoy the music or programs from above devices by you car FM radio or your radio at home.

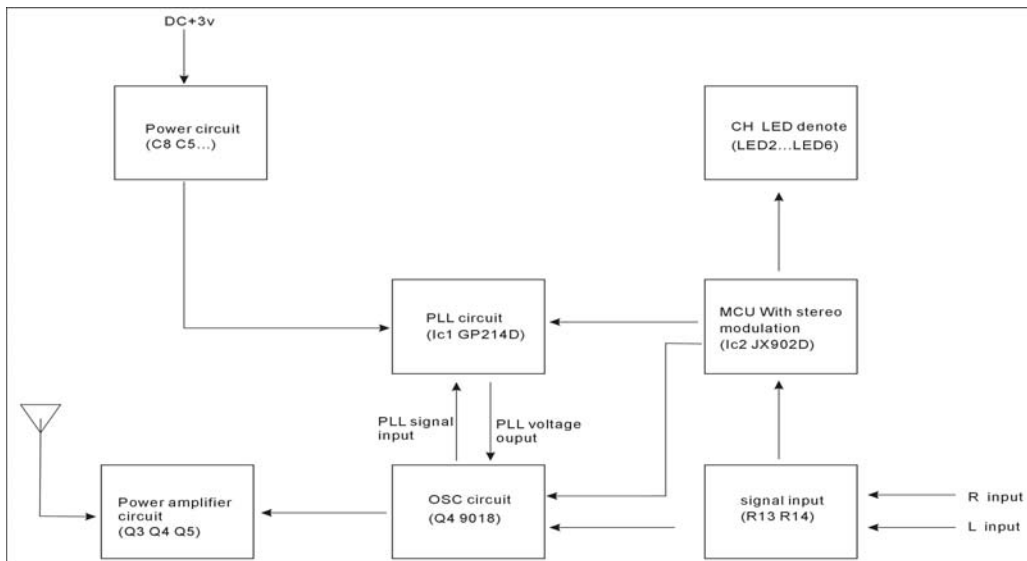
Transmission Frequency: 107.1MHz, 107.3MHz, 107.5MHz, 107.7MHz, 107.9MHz

Modulation Type: FM

Function:

Use PLL technology to transmit and preset 5 frequency points to avoid interference from local radio stations.

### 2、Structure



#### 1. Structure

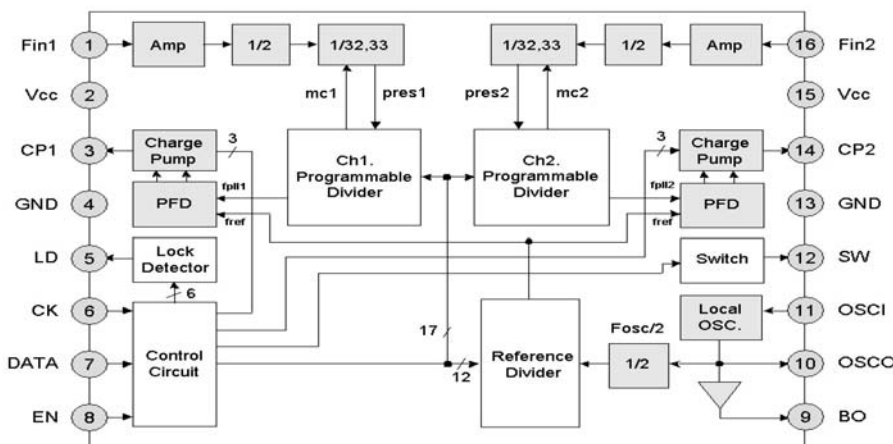
##### 2.1 structure introduce

The system is consist of OSC circuit and PLL circuit and MCU with stereo modulation and power amplifier circuit.

##### 2.2 OSC circuit

OSC circuit includes the transistor Q4 and correlative peripheral components.

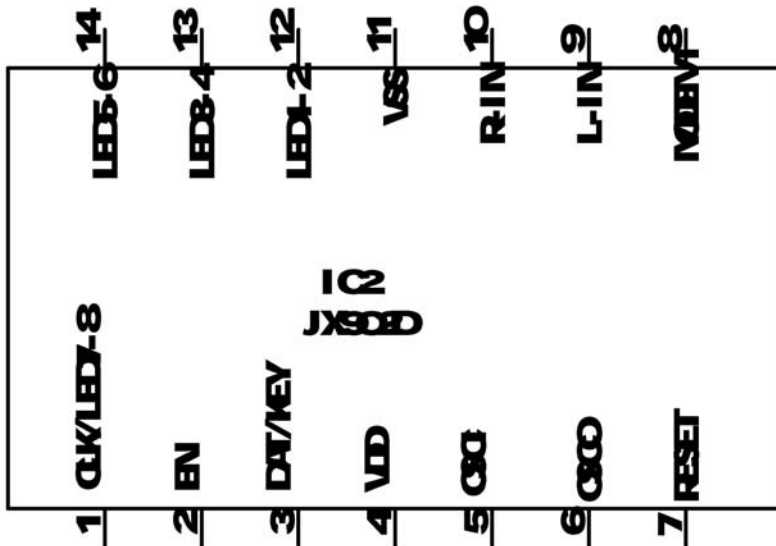
##### 2.3 PLL circuit



## 2.4 MCU with stereo modulation

Input R and L signal through pin 9 and 10, after MCU, we get modulation signal, the stereo complex signal will output through pin 8, and transfer to OSC circuit.

Pin 1, 2, 3 of MCU can output data signal to pin 6, 7, 8 of PLL IC.



## 2.5 RF power amplifier circuit

The signal is transferred to antenna to send out after amplifier through transistor Q3, Q4, Q5.

