

Working principle of transmitter:

1. The transmitter inside set up the 915MH wireless transmit module CON5, it can input the signal from Aux or IPOD, then sent the signal through RF module and received by the transmitter.
2. IC5 is the mainly CMOS chip, charge for the date transmit, function. Operate and control other functions which connect with IPOD.
3. R54, R51 is the Infrared receiver, and receiving the control instruction.
4. Q5, Q6 composition the signal detection, isolation function with the date transmit by IPOD. X1, X2 is the benchmark time of the MCU. U1, ZC1 is respectively steady electric circuit for 3.3V and 5.0V, charge for supping the circuit for MCU and IPOD.
5. IC3 make up the IPOD input signal buffer amplifier, input the signal to IC4 with AUX., amplifier and then through C35, R36, C37, R37 to RF module till sent it out.
6. Q2, Q3 make up RF module control circuit, selector switch by SW1 Channel.
7. Q1, D3, C1 make up the steady circuit, used for supplying the electricity for IC3, IC4.
8. U2, D6, D7, Q4 form the function of signal amplifier and demodulation, used for judgement the signal input. In the condition of without signal input, it will automatically stop the working of RF module after four minutes.