

## Circuit Description

The wireless speaker, U3 EM78P153 is a master controller, it controls and transmits the data. U1 SR1018 is PLL IC, it controls to locked the 915MHz RF signal. U2 UTC31101 is audio compress expand IC, it controls to enlarge and plus of the audio frequency. The LINE-IN signal enter to U2 through R1 R3 R4 R5 to compress and expand, then transmit to Q1 Q2 to enlarge the filter, through R13 R21 by controls with MCU to have stereo concoction, and R38 Stereo signal together transmit to RF PLL circuit to make the FM concoction. Q3 2SC4226 C28 C29 C30 D1 U1 composed PLL circuit and have the 915MHz RF signal. And the osc is 7.6MHz, Q4 to have the amortization to RF signal. Q5 will enlarge the power of the RF through antenna and send the signal out.