

Circuit Description

This product include 1 Transmitter and 1 Receiver. Worked frequency is 106MHz.

TX description:

MIC1 sense the voice signal, though C9, R7 output to U4-A(LM358), the voice signal was amplified by U4-A, then output from U4 Pin 1, though C7, C8 to U1 Pin 9 and pin 10, amplified voice signal modulated FM by U1, then the 106MHz RF signal output from U1 pin5, L2, C4, L3, C3, L4 and C20 constitute harmonic filter. Then the 106MHz RF signal though C17 to antenna. Y1 is the reference clock cycle for U1, the frequency of Y1 is 7.6MHZ. C5, C6 are load capacitors.

U3 is a micro processor, it control the system working. U4-B and C15, R10, R9, C16, C13, D1, D2, R3, C14, Q1 is the voice detect circuit. When the micro process detected no voice signal over 30 seconds, it will cut off the RF signal.

All the circuit supplied by 2*AA battery, SW1 is the power switch.