

#10521 Circuit Description

This product is walkie talkie mainly work by a transceiver IC and microprocessor.

TX Description

Once MCU detect an PTT switch was press, MCU(U1) will general a digital command to Walkie Talkie IC(U2). Walkie Talkie will change to tx mode and detect Microphone signal.

Microphone voce signal will be modulated to FM signal inside Walkie Talkie IC(U2). The modulated FM signal will then pass to RF amplifier IC(U3), after pass though RF filter section. RF signal will send out though antenna.

RX Description.

Normal states of walkie talkie work in RX mode. RF signal will input to RF circuit through antenna to Walkie Talkie IC(U2). Once received signal, Walkie Talkie will demodulated RF signal to voice signal and pass Audio Amplifier IC(U4) to Speaker. MCU (U1)will check the signal SNR to enable and disable Audio Amplifier IC for muting control.