

Receiver Operational Description

The receiver device is used three AA alkaline battery, it is designed to operate a single fixed frequency in 315Mhz band. Please see the attached schematics diagram.

Receiver is employed a four function remote control decoder TL2272M4 U1 integrated circuit, TL2272M4 is able to decode four sequences of binary information into serial data stream.

The pin VT is to enable the sound chip U3 with corresponding data stream to pin D0 according to type of melody is transmitted. The audio output of sound chip (U3) is then amplified with the LM4889 (U4) audio amplifier. The audio signal is broadcasted through the loudspeaker SP1.

The Q1, C1, C3, L1 form the oscillator of 315Mhz and L2, R4, C5 form the super-regenerative function of the receiver. Small level of recovered data stream is amplified by Q2, Q3, Q4 and U2, is then fed into the decoder.