

Operation Description of Transmitter

Operation Frequency: 2464 MHz, 2465 MHz, 2466 MHz, 2467 MHz, 2468 MHz, 2469 MHz, 2470 MHz, 2471 MHz.

Modulation Type: MSK or QPSK 500Kbps
GFSK or OOK 250Kbps

The transmitter is formed by 3 parts:

- 1).MCU:PIC16F73 and its around circuit
- 2).RF Module: CC2500
- 3).Frequency channel selection circuit

MCU PIC16F73 parameters of frequency channel, channel spacing and RF power according to frequency selection by users. data is sent to RFSDI,RFSDO,GDO2,GDO0, RFSCCK, RFnSEL of RF module from the pins RC3,RB0~RB4 of PIC16F73, PIC1673F sent a control code to control its transmission, Pin XOSC-Q1 and XOSC-Q2 of CC2500 module output time baud rate.

2.4GHz is transmitted by antenna. The transmission is stopped once key is released. PIC16F73 controls relevant red LEDs on.

RA0 of PIC16F73 connects to the driver of LED indication. 3 red LEDs indicate the time of the 3 relevant vibration. RC4~RC7 connects to the frequency channel selection.