

TRANSMITTER DESCRIPTION

1. Transmitter Power Voltage : DC 12V
2. Cock Frequency : About 128KHz
3. Transmitter Frequency : 27.145MHz Modulating Manner : AM
4. Work process :

In transmitter, press the Start, Light , Sound , Horn , Speed ,Forward, Backward, Left or Right, output U2(TX6C) pin 10 supply encoding signal.

U1(CD4017) & Q3 is speed control .

Q2 & X1 is a crystal oscillator of 27.145MHz frequency.

Q1 is a modulator. Output of Q1 drives the transformer L1. The antenna is coupled to the modulator by the transformer.

RECEIVER DESCRIPTION

1. Power Voltage : DC 9.6V

2. work process :

In receiver , L2 is tuning 27.145MHz frequency, And Q21 is a RF amplifier and detector stage .

U1(RX6C) is a signal amplifier and decoder , if controls the output of U1 pin6,8 and pin7,9 . Q8 and Q7 are regulator . Q5,Q1,Q4 are left –motor driver, and Q6,Q2,Q3 are Right –motor driver. U2 (LT8888B) Pin15 =0 (Low Level) are forward –motor driver . U2 Pin15=1 (High Level) are backward –motor driver. .

Q16,Q15 and Q16 is PWM speed adjust.

Q11 ,Q13 is power on/off control .

Q7,Q8 is regulator auto stop.

Q17 is Light control .

Q9,Q10 and Q12 not

U3 (LM386) is a audio power amplifier .