FCC ID: HOG10413RX

Circuit description

The receiving end includes four parts: power supply section, 2.4 G RF receiver section, logic control section of MCU, motor driver section.

The power supply is powered by 12v DC, and then charge RF receiver and MCU logic control after stabilizing voltage reaches 3.3V. Motor is powered by 12V directly.

16MHZ crystal oscillator drives IC.

Main MCU of the receiver sends a signal to notify the 2.4G IC 7105, which gives a sign by C6, C16, L4, C18 and 2.4G gain antenna to inform the transmitter to make a signal afterwards.

After the signal of transmitter is received by gain antenna and processed by C18, L4, C16, C10 and 2.4G IC 7105, a sign is sent to main MCU of the receiver.

The receiving part of RF works in the frequency range from ISM 2.402 to 2.4775, receiving the signal from TX. This signal is decoded by MCU. After that, it is sent to motor driver to control corotation and inversion of motor and the LED。