

# Transmitter Operational Description

The transmitter device is used 1.5v \*2 'AA' batteries, it is designed to operate a single fixed frequency in the 27.145MHz band. Please see the attached block diagram and schematic.

Transmitter is using a five-function Remote Control Encoder-SPRC205A integrated circuit, the SPRC205A is able to encode five sequences of binary information into a serial bit-stream data. When push any one of the button keys, it will have information activated, via built-in crystal oscillator and power amplifier, the controlling signal will be encoder into a bit-stream data, and as same time, the red LED D6 is flashing indicated that a controller in activation state, that means a bit-stream data sending from the RFO pin of integrated circuit, After five information sequences are becomes inactive, the SPRC205A will transmitter addition fifteen data frames to increase transmission reliability.

Furthermore, capacitors C11, C7, C8, C9 and transistor T1 form a high frequency attenuator, it using to match antenna and reduce harmonic emission of carrier wave signal.