

**CIRCUIT DESCRIPTION**

Referring to the attached schematic diagram, output of the encoder IC (IC1) drives RF oscillator using saw resonator, RFM RO2073A-1 (SAWR). One lithium cell battery, 3Volts, supplies power to the encoder IC VDD pin directly and to the Q1 through R3 and pattern antenna. When SW1 and SW2 are not on, the encoder IC doesn't working and is being stop mode until any switch is on. If any switch is turned on, the encoder IC goes out from the stop mode and drives the RF oscillator according to the attached TRANSMITTED DATA FORMAT by ASK. simultaneously, the pattern antenna of RF oscillator radiates the radio wave,  $315\text{MHz} \pm 75\text{KHz}$  carrying data format.

