

## **Circuit Description**

The Microprocessor (U1) reads input commands (SW1/SW2/W3/W4), and then encodes them to digital codes. The codes are sent to RF oscillator via pin 8 of U1, R8 and then modulates 49.820 ~ 49.900MHz, carry frequency signal via Q1 to achieve AM signal. The Radio Frequency of the transmitter is based on standard 49.860MHz AM citizen's band. It generates low power 49.820 ~ 49.900MHz, AM carrier frequency via major components of Q1, T2, L1, C9, C10, C13, R2, and R7 etc.. Please note that the value of the components may vary. Please see the attached schematics for more detail. The AM signal is passed to RF amplifier (Q2, C3, R6 and L3), which amplifies the signal and then couples the signal into the antenna (ANT1) via components C7, C1, L2, C8 and L5.