

### **Technical Description for Luggage Locator**

The luggage locator works in pairs, the transmitter and receiver. Signal is sent from transmitter whereas one or many receivers works under the same frequency pick up signal. If the code matches, receiver will generate an audio and visible signal for indication.

#### **The Transmitter**

The transmitter operates with a 12V #23A battery. When the power switch is push on, LED DI turns on and gives an visible indication to the end user. At the same time, a signal generated from encoder at a frequency of 2.2kHz. The encoding code is pre-set in factory in different combinations by connecting terminals A0 to A7. This signal will then be modulated with the carrier frequency at 315MHz oscillated by oscillator Q1, L2, C1, C2, C3. The signal is then transmitted through the antenna.