

### 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 Receiver

The receiver operates with a 9V battery (USA size: 216M or European size: 6F22M) and regulated to 5V by regulator IC4. When the power switch is on, the receiver is ready to work.

The RF signal is received from antenna and pick up by the regeneration type oscillator Q1, C1, C2, C3, L1, and L2. Signal is then amplified by IC2. Decoder IC1 compares the serial data three times. If codes match, the input data codes will be decoded and transferred to the output. The output will turn the switch Q2 on and activates IC3. When IC3 is on, LED D4, D5 and the buzzer driven by amplifier Q3 will turn on. LED D4, D5 and buzzer are both audio and visible indication to attract the attention of end users. The audio signal comes from one of the 4 built-in musical melodies in IC3. The melody is preset in factory.