GDDRS13800WL Functional Description

- 1. Key Matrix: Detect, which key user, pressed to uP.
- 2. DIP SW: 8bit DIP switch bit 1-4 set RF channel, bit 5-8 set user ID
- 3. 2.4GHz Tx RF module: Transmitter module for 2.4GHz ISM band
- 4. DC/DC Converter: converter battery to a stable 3.0 volt.
- 5. Battery Low Detect: Detect the battery status, When the volt below 2.0 volt then send a battery low signal to uP.
- 6. Micro-controller: Encode and Packet detected data to transmitter.

Operation flow:

- 1. The uP detect key matrix and battery status
- 2. The uP add ID data then package the information to protocol format.
- 3. Coding the data to Manchester format for RF transmission.
- 4. Send coded data to RF Module by DIP switch assigned channel.

The RF module sends the data by FSK method at 2.4GHz ISM band