DESCRIPTION OF OPERATION

The encoder generates a digital code serially transmit (typical designation) when press button into the Central Processor Unit HS2260. The serially digital signal mixed with the carrier by way of FSK mode (Frequency Modulation) and is sent to the Transmitter antenna. The modulation depth is designed such as ± 5KHz in this application. That means the pulse (may be at high level state or low level state) will trigger the oscillator to generate a frequency of 315MHz at a specified fundamental frequency +5KHz or −5KHz, depended on the designation. For example, if the carrier frequency defined as fundamental frequency +5KHz at high level state, then the alternative carrier frequency will be fundamental frequency −5KHz at low level state. The Central Processor will trigger the oscillator to generate a carrier frequency when receive the signal.

Antenna is printed in the PCB
The tramsmitter is powered by the 12V battery.