

## 49.860MHz Transmitter Operational Description

The 6.0v car & truck radio control transmitter is a low powered, hand held unit for controlling the movement of a toy car the transmitter is powered by a 1.5volt \*2 'AA' batteries, it is designed to operate on a single fixed frequency in the 49.860MHz band. Please see the attached block diagram and schematic.

Transmitter is using a five-function Remote Control Encoder-SPRC205A integrated circuit, the SPRC205A is able to encode five sequences of binary information into a serial bit-stream data. When push any one of the button keys, it will have digital control signals, via built-in crystal oscillator and power amplifier, circuit comprised of a crystal x1 the RF carrier signal is modulated by digital control signal from U1 s pin<sub>RFO</sub> the modulated output of pin<sub>RFO</sub> is capacitively coupled via C7 to the antenna through a pi matching network comprised of C8 C9 and L5 the antenna is permanently ,

All tuning and verifications are performed by the manufacturer and there are no adjustments that can be made by the User .No external ground is required or used with this transmitter