

## **Technical Description**

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Car Unit) for a RC car operating at the frequency range of 2410, 2414, 2428,2434,2440,2455,2461 and 2477 MHz.

The EUT is powered by 6.4V Rechargeable battery. After switching on the EUT and being paired with controller, the car can be controlled to move forward/backward and turn left/ right by the controller.

**The brief circuit description is listed as below:**

- 1) U3 acts as MCU and 2.4GHz RF Module Circuit (TX2I).**
- 2) XT1 is 12MHz crystal oscillator providing clock for U1.**
- 3) U1 and U2 act as Motor Driver (MX7889).**
- 4) U4 acts as Voltage Regulator (LM358).**

**Antenna Type: Internal antenna**

**Antenna Gain: 0dBi**

**Nominal rated field strength: 91.6dB $\mu$ V/m at 3m**

**Maximum allowed field strength of production tolerance: +/- 3dB**