

# Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Car Unit) for a RC Car. The sample supplied operated on 40 channels of BT 4.2 BLE only, normally at 2402 - 2480 MHz. The channels are separated with 2 MHz spacing.

The EUT is powered by 6.4V rechargeable battery or 6.0V (4 x 1.5V "AA" batteries). After switch on the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the phone application controller.

Antenna Type: Internal Integral antenna

Antenna Gain: -0.58dBi

Nominal rated field strength is 97.8 dB $\mu$ V/m at 3m

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U4 acts as Bluetooth Module
2. U3 acts as MCU
3. Q1, Q2, Q4 & Q5 and related components act as Motor drive of M1
4. Q16, Q17, Q19 & Q20 and related components act as Motor drive of M2
5. U1 acts as voltage regulator
6. Y1 acts as Crystal Osc. Of BT Module