

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Drone Unit) for a RC Drone. The sample supplied operated on 31 channels, normally at 2449 - 2479MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 1 x 3.7V LiPo battery. After switching on the EUT, the drone will undergo different movement based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 75.1dB μ V/m at 3m (Peak), 52.3dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN7420) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C12 act as antenna matching circuit
4. U2 and U3 provides gyroscope function
5. U4 acts as voltage regulator
6. Q1 and Q2 acts as motor driver
7. U5 acts as LED controlling circuit.