

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Drone Unit) for a RC Drone. The sample supplied operated on 32 channels, normally at 2440 - 2471MHz. 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 68.7dB μ V/m at 3m (Peak), 46.6dB 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. C1, C2 and C3 act as antenna matching circuit
4. U2 acts as voltage regulator
5. U3 acts as motor driver for M1 and M2
6. U4 acts as motor driver for M3 and M4
7. IC1 (TCBP001TA) acts as barometer
8. IC2 (ICM-42627) acts as gyroscope.