

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Skateboard Unit) for a RC Skateboard. The sample supplied operated on 40 channels, normally at 2423 - 2462MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 3.7V Lithium-ion batteries. After switching on the EUT, the Skateboard will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 97.7dB μ V/m at 3m (Peak), 76.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L3 and C19 act as antenna matching circuit
4. U2 acts as motor driver
5. U3 acts as stabilivolt
6. U4 provides charging function.