

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Skateboard Unit) for a RC Skateboard. The sample supplied operated on 4 channels, normally at 2405 - 2476MHz. The channels are shown in below table.

2405	2424	2451	2476
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The EUT is powered by 1 x 3.7V Lithium-ion battery. 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 62.7dB μ V/m at 3m (Peak), 54.6dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

For main circuit board:

1. U1 (TLSR8373DEE) acts as MCU
2. X101 acts as 24MHz Oscillator
3. C22, C23 and C24 act as antenna matching circuit
4. Q61 (7533-1) acts as stabilivolt
5. U23 (CST6118) acts as motor driver
6. U6 (4054) acts as charging circuit

For steering engine circuit:

1. U1 (KCX9702) acts as steering engine driver
2. U2 (SC662K) acts as voltage regulator.