

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Dinosaur Unit) for a RC controller. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz with 1MHz channel spacing.

The EUT is powered by 1 x 3.7V lithium-ion battery. It can be recharged through a USB-C cable by a 5.0VDC USB port. After switching on the EUT, the EUT will move in different directions based on the switches pressed in the controller, emit sound and light. The EUT cannot be operated during charging.

2.4GHz RF portion

Antenna Type: Internal, Integral

Antenna Gain: 0 dBi

| Operating mode | Range of Peak Conducted Power | Modulation |
|----------------|-------------------------------|------------|
| 2.4GHz | -15 dBm to 0dBm | GFSK |

The main components are described below:

2.4G portion

1. U1 YC1062 is 2.4GHz RF radio core
2. 24MHz crystal (Y1) is operating clock for YC1062

Motor and Sound portion

1. U4 is Sound and driving speaker IC
2. U5, U6, U7 are motor driver IC