

Technical Description

Report No.: 16050272HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Pure Transmitter (Controller Unit) for a RC pterodactyl operating at the frequency range of 2405-2475MHz with 1 MHz channel spacing.

The EUT is powered by 6 * 1.5V AA batteries. After switch on the EUT and paired with pterodactyl, the pterodactyl can be controlled to move forward and turn left/ right by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 89.6 dBμV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

The brief circuit description is listed as below:

1. S1, U1 U2 and the associated circuit act as the power supply.
2. U3 and the associated circuit act as IC encoder.
3. U4 and the associated circuit act as lithium battery charger.
4. F1 and the associated circuit act as 2.4G RF transmitter.
5. Y1 acts as the 12MHz oscillator for the 2.4 RF module.