

# Technical Description

Report No.: 16030910HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Tank Unit) for a RC Tank operating at the frequency range of 2408-2460MHz that contains 5 occupied channels, which are 2408, 2418, 2430, 2442 and 2460.

The EUT is powered by a 3.7V rechargeable battery. After switch on the EUT and pair with the controller, the Tank can be controlled to move forward and turn left/ right by the controller. The Tank can be charged by USB port charging cable.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.3dB $\mu$ V/m at 3m

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

The brief circuit description is listed as below:

1. U3, U5 and their associated circuit act as the left-motor control unit.
2. U4, U6 and the associated circuit act as the right-motor control unit.
3. U8 and the associated circuit act as the mode-switching motor control unit.
4. U1 and the associated circuit act as the MCU.
5. U2, U7 and the associated circuit act as the power control unit.
6. J2 and the associated circuit act as the 2.4G module.
7. Y1 act as the crystal oscillator.