

# Technical Description

Report No.: 16010778HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Transceiver (Boat Unit) controlled by controller operating at 2402-2480MHz with 1MHz channel spacing. The EUT is powered by 4 \* 1.5V AA batteries. After switch on the EUT and paired with Controller, the boat can be controlled to move forward, backward and turn left/right by the controller.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 85.2dB $\mu$ V/m at 3m

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

The brief circuit description is listed as below:

- 1) U1 and the associated circuit act as a RF module.
- 2) U2 acts as the motor driver.
- 3) U3 acts as the DC convertor.
- 4) Y2 acts as the crystal oscillator for U1
- 5) K1 acts as the power switch
- 6) L1, C16 and R1 act as the filter.