

Technical Description

The EUT is a 2.4GHz transceiver with a camera. The EUT is powered by 6 x 1.5V AA batteries. After switching on the EUT and being paired with controller, the car can be controlled to move forward/backward and turn left/ right.

It is operating at the frequency range of 2410.875-2468.25MHz with 3.375 MHz channel spacing and can also connect to controller with the function of taking photo and recording video.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 109.8dB μ V/m at 3m

Average field strength: 89.2dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +3dB / -6dB

The brief circuit description is listed as below:

Car portion:

1. U5 (XXX234) and the associated circuit act as Decoder MCU.
2. U3, U4, and U6 act as voltage regulator.
3. M1-M4 are motors.

Camera portion:

1. U5 (SNRC50AFG) acts as the MCU of Camera portion.
2. U1 (XXX21) acts as the 2.4GHz RF module.
3. U2 (2402E) acts as 2.4GHz RF Front-end IC.
4. Y1 acts as 12 MHz frequency oscillator.
5. Y2 acts as 18 MHz frequency oscillator.