

Technical Description

The Equipment Under Test (EUT) is a portable 2.4GHz Pure Transmitter (Controller Unit) for a RC plane operating at the frequency range of 2406-2473MHz with 1 MHz channel spacing.

The EUT is powered by 4 * 1.5V AAA batteries. After switch on the EUT, the plane 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: 86.5dB μ V/m at 3m

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

The functions of main ICs are mentioned below.

1) 2.4GHz transmitter;

i) U3 (XN297) acts as the 2.4G RF Chipset.

ii) Y1 acts as 16MHz Oscillator.

2) U1 acts as LDO (3.3VDC).

3) U2 acts as a Control MCU (SOP16).