

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver for a Beacon. The sample supplied operated on 29 channels, normally at 2440 - 2468MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the EUT, the beacon can be paired up with the havoc or the spectre, while the havoc or the spectre can be further paired up with a smartphone together with the training drone. The beacon and the training drone will be used as shooting target to play different shooting game based on the signals received by the paired smartphone from the beacon and the training drone.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 95.8dB μ V/m at 3m (Peak), 61.8dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN186) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C1 and C4 act as antenna matching circuit
4. U3 provides LDO function.