

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz 2Mbps BLE Transceiver for a BLE Controller. The sample supplied operated on 40 channels, normally at 2402 - 2480MHz. The channels are separated with 2MHz spacing.

The EUT is powered by 3 x 1.5V AAA batteries. After switching on the EUT, the EUT, the controller can be paired up with the turret. The turret will undergo automatic shooting action with different angle based on the switches pressed in the controller. The turret can be further paired up with a smartphone together with other external units to play different shooting game.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 87.1dB μ V/m at 3m (Peak), 66.3dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. IC1 (AC6329C) acts as MCU
2. Y1 acts as 24MHz Oscillator
3. C2, C3 and R4 act as antenna matching circuit.