

Technical Description

The Equipment Under Test (EUT) is a Wireless Optical Mouse. It can pair with a corresponding dongle. The 2.4GHz module in the EUT is operating in the frequency range from 2408MHz to 2474MHz (67 channels with 1MHz channel spacing). The EUT is powered by 3.0VDC (2 x 1.5VDC "AAA" size batteries).

2.4GHz Bluetooth Module:

Modulation Type: FSK

Antenna Type: Integral, Internal (PCB Trace)

Frequency Range: 2408MHz - 2474MHz, 1MHz channel spacing, 67 channels

Nominal field strength is 96.0dB μ V/m @ 3m

Production Tolerance of field strength is +/- 3dB

Antenna gain is 1.1dBi

The functions of main ICs are mentioned below.

1. 2.4GHz module MA4302

- 1) MA4302 acts as the 2.4GHz radio core of 2.4GHz module
- 2) 12MHz crystal (X1) provides clock for MA4302
- 3) U4 (24LC02) is serial EEPROM for parameter backup of MA4302