

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transmitter (Piano Unit) for a RC Piano. The sample supplied operated on 41 channels, normally at 2423 - 2463 MHz for transmitter and receiver. The channels are separated by 1 MHz spacing.

The EUT is powered by 4 x 1.5V AA batteries. After switching on the EUT, the piano will make sound when the button on the controller is pressed.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 94.1dB μ V/m at 3m

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

The brief circuit description is listed as follows:

1. U3 acts as 2.4GHz RF Module
2. Y1 acts as 16MHz Oscillator
3. U1 acts as Voltage regulator
4. U2 acts as MCU
5. U4 acts as SPI Flash chipset