

Technical Description

1. How the sound box is operating?

The TX unit is controlled by a MCU. When the button is pressed first time after the unit is power on, it will send out a data with 0.3s. This data is modulated at 315MHz .

The sound box will be triggered once receive it.

2. How the silent time is achieved?

Once the button is pressed firstly, a timer in MCU is starting to count the silent time. The defaulted silent time is approx. 11.3s. Large than 10s of the FCC requirement. In this period, the button is forbidden.

3. Technical Data:

1) Frequency: 315MHz

2) Modulation: ON OFF Keyed

3) Data Rate: 2.57Kbps

4) Total Payload:

A) Start Code

----- 7 Pulses

----- $300\mu s \times 5 + 600\mu s(H) + 400\mu s(L) = 2.5ms$

B) Data

----- 18Bit

----- $400\mu s \times 18 = 7.2ms$

C) Encode

----- 1 Pulse

----- $1 \times 400\mu s = 0.4ms$

5) Total time: 10.1ms

Winly Kiss Box range of products:

Technical details:

- | | |
|-------------------------|--|
| 1. Frequency: | 315MHz |
| 2. Frequency Tolerance: | +/- 1MHz |
| 3. Radiated power: | 0.05W |
| 4. Operating voltage: | 9 volts d.c |
| 5. Transmitter timing: | On time = 0.3 secs
Silent time = 12 secs. |