Declaration of headphone (Receiver) Operation Principle

ARKON ELECTRONICS (HUIZHOU) CO., LIMITED
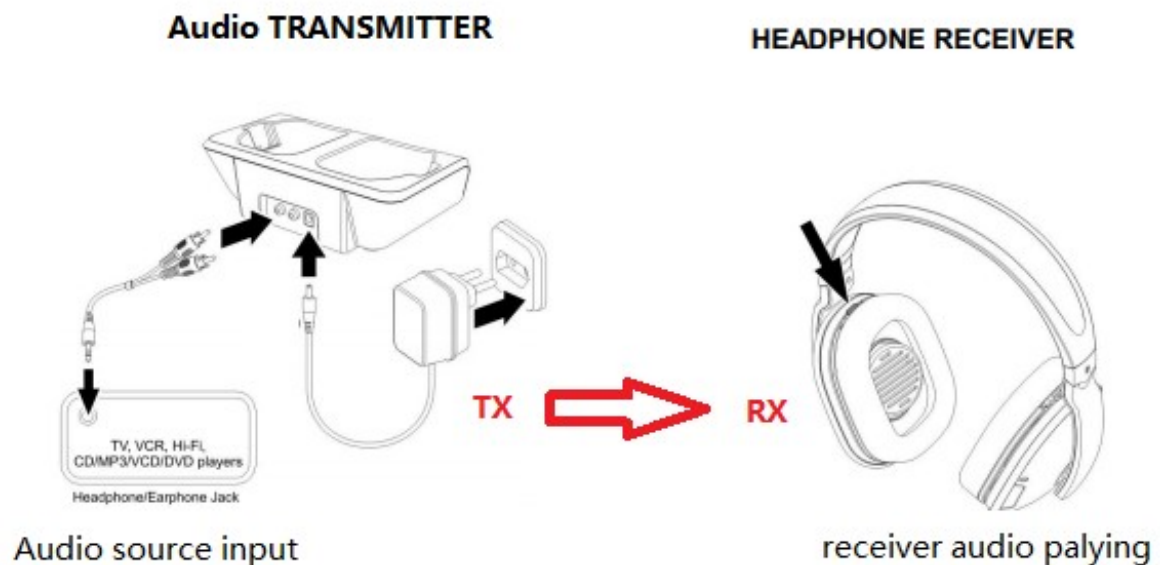
Model Name: DHP380A; DHP380; ADH300

FCC ID: 2APBSDHP381A-01TX

1.   **Operation Principle**:

The chip was support 2.4GHz Wireless, The headphone only receiver.

The headset will change the receiving state and the way it receives data after receiving the transmitting command provided by the transmitter.


6、 **Channel & Frequency**：

31 channels are provided to FHSS (The total support channels)

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	**2406**	8	2422	16	2444	24	2460
1	2408	9	2424	17	2446	25	2462
2	2410	10	2426	18	2448	26	2464
3	2412	11	2428	19	2450	27	2466
4	2414	12	2430	20	2452	28	2468
5	2416	13	2432	21	2454	29	2470
6	2418	14	2438	22	2456	**30**	**2472**
7	2420	15	2440	23	2458		

According the FCC rules part 15 subpart C15.247 frequency hopping system shall have hopping channel carrier frequency separated by a minimum of 25 KHz or 20dB bandwidth of the hopping channel. Channel separation 2 MHz @ per channel

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Transmitter
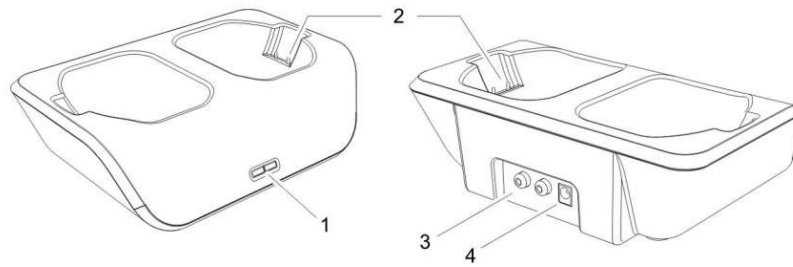
The Transmitter with Two antenna:

One Antenna only transmitting (TX audio data and control signal to the headphone) only

One Antenna only receiving only（Receive and detect interference signals in the environment, and switch to a better frequency hopping sequence based on the wireless environment）

ANT 1: TX only   ANT 2: RX only
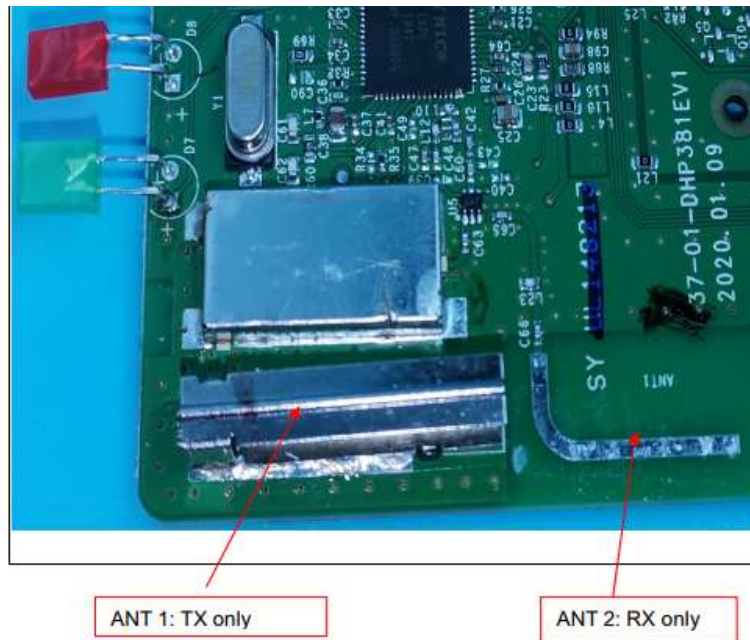
4 Frequency Hopping Sequence types							
Hopping Sequence 1 Channel list		Hopping Sequence 2 Channel list		Hopping Sequence 3 Channel list		Hopping Sequence 4 Channel list	
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2406	0	2406	13	2432	0	2406
7	2420	1	2408	15	2440	1	2408
8	2422	2	2410	18	2448	2	2410
9	2424	3	2412	19	2450	3	2412
10	2426	4	2414	20	2452	4	2414
11	2428	5	2416	21	2454	5	2416
16	2444	6	2418	22	2456	6	2418
17	2446	7	2420	23	2458	10	2426

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18	2448	8	2422	24	2460	21	2454
19	2450	9	2424	25	2462	25	2462
20	2452	10	2426	26	2464	26	2464
22	2456	11	2428	27	2466	27	2466
28	2468	12	2430	28	2468	28	2468
29	2470	14	2438	29	2470	29	2470
30	2472	17	2446	30	2472	30	2472

Note: the UUT will operation in the above four frequency hopping sequences.

According the FCC rules part 15 subpart C15.247 frequency hopping systems operating in 2400-2483.5 KHz band that meet 15 hopping frequencies each Hopping Sequence.

The reference diagram drawing as below :
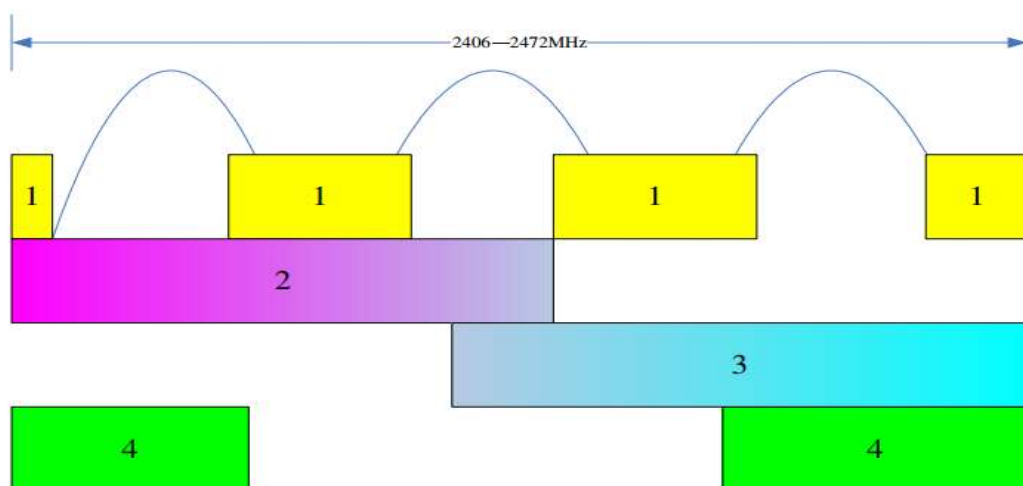
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