

Smart Tools Plus, LLC

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1) The system utilizes standard Bluetooth Low Energy Frequency hopping strategy. There are 40 channels from 2400 to 2483 MHz with each channel having a 2 MHz width.

Channels 37, 38, and 39 are reserved for advertising, while the remaining channels are all used for data communication between devices.

2) I confirm that the device complies with CFR 15.247(g)(h) as implemented by the ESP32 chipset.

3) Channel Listing

Channel Number	Frequency (MHz)	Type
37	2402	Advertising
0	2404	Data
1	2406	Data
2	2408	Data
3	2410	Data
4	2412	Data
5	2414	Data
6	2416	Data
7	2418	Data
8	2420	Data
9	2422	Data
10	2424	Data
38	2426	Advertising
11	2428	Data
12	2430	Data
13	2432	Data
14	2434	Data
15	2436	Data
16	2438	Data
17	2440	Data
18	2442	Data
19	2444	Data

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Channel Number	Frequency (MHz)	Type
20	2446	Data
21	2448	Data
22	2450	Data
23	2452	Data
24	2454	Data
25	2456	Data
26	2458	Data
27	2460	Data
28	2462	Data
29	2464	Data
30	2466	Data
31	2468	Data
32	2470	Data
33	2472	Data
34	2474	Data
35	2476	Data
36	2478	Data
39	2480	Advertising

Example Psuedo-random hopping frequency list based on BLE Channel Selection

Algorithm #2:

18, 5, 33, 27, 12, 9, 36, 2, 21, 30, 7, 25, 3, 14, 19, 35, 6, 31, 13, 11, 28, 8, 17, 24, 1, 22, 10,
34, 15, 4, 26, 23, 20, 32, 16, 29