

Date: 06-24-2025

FCC ID: VR3-CV3

Bluetooth Operation Description for CLIQ Key

The Medeco CLIQ key uses the Texas Instruments CC2640 Bluetooth Low Energy (BLE) transceiver. It is suitable for the following Radio Frequency compliance regulations:

- ETSI EN 300 328 (Europe)
- EN 300 440 Class 2 (Europe)
- FCC CFR47 Part 15 (US)
- ARIB STD-T66 (Japan)

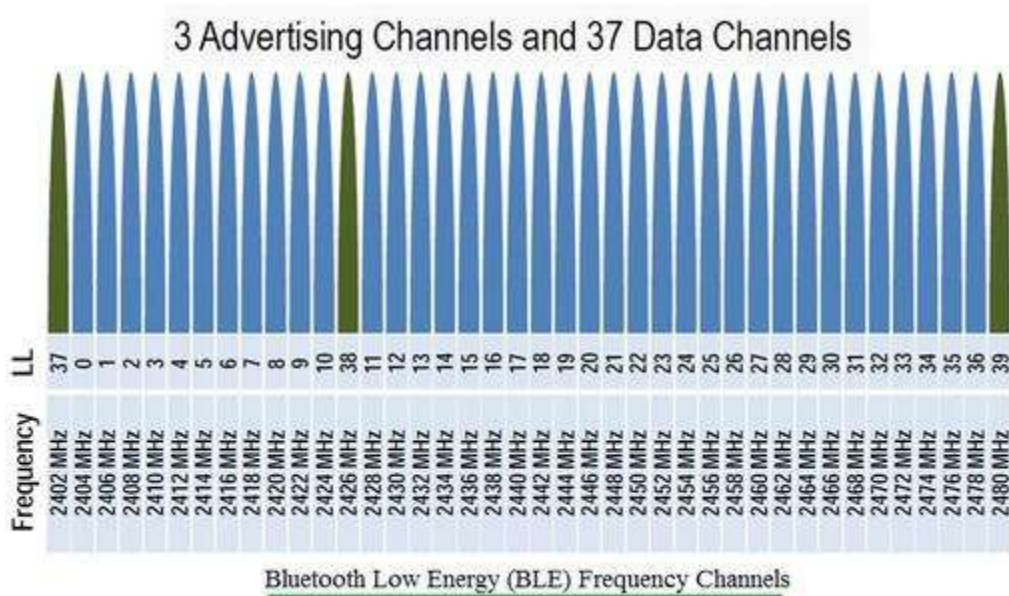
We confirm that the device complies with the emission requirements of FCC CFR 15.247(g)(h) as implemented by the Texas Instruments chipset.

Bluetooth Low Energy Frequency Usage

Bluetooth operates in the 2.4 GHz ISM Band, spanning from 2402 to 2480 MHz. BLE Channels are spaced 2 MHz apart. The table on the following page shows the channel numbers, channel frequency, and channel purpose.

Bluetooth uses both Advertising Channels and Data Channels. Advertising channels carry broadcast data and facilitate the discovery of peripherals for connection purposes. Data channels are used to exchange data between connected devices.

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
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



Bluetooth Low Energy Pseudo-Random Frequency Hopping List

To avoid congestion and interference between channels in the ISM band, BLE uses an adaptive frequency hopping technique.

An example of the frequency hopping technique is shown in the following algorithm:

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