

Product function:

This product consists of Bluetooth module and structure. Powered by an external Button Battery (CR2450), the supply voltage is DC 3.0V.

This product is used as a beacon for positioning.

Bluetooth module:

The maximum power of this Bluetooth module is 4dbm.

A transmitting part is constituted in the Bluetooth block of nRF52810. The nRF52 Series 2.4 GHz RF transceiver is designed and optimized to operate in the worldwide ISM frequency band at 2.400 to 2.4835 GHz. Radio modulation mode and configurable packet structure with Bluetooth® Low power (BLE) protocol enables interoperability.

The transceiver receives and transmits data directly to and from system memory for flexible and efficient packet data management. The nRF52 Series transceiver has the following features:

- General modulation features
- GFSK modulation

By using the reference signal (X2:32MHz) currently used by the external clock input, stable RF signal and the table baseband clock are generated, which is mandatory to operate the radio. X1 is crystal frequency 32.768KHz.

BLE Antenna: PCB Antenna

Antenna number: 1

Antenna gain: 0.69dBi

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

For more information, please refer to the following website.

<https://www.nordicsemi.com/eng/Products/Bluetooth-low-energy/nRF52832>