

1、FHSS comments

A frequency hopping spread spectrum (FHSS) system works by hopping from one frequency channel to another in all the channel lists (as listed).

The system frequency hops in all 78 channels. (2403~2480)

(A)

When in the period of building the connection, Dongle send the connection symbol (a transmitting signal) to the Device. Device is onto a certain channel (a random one) waits to receive. Dongle hops from the selected 15 channels, sending the transmitting symbol, until the Device receive the signal to get connection built.

(B)

When the connection is built, the system is still always hopping. The device and the dongle will be hopping as a same rule in each side. It will be hopping from the selected another 63 channels. Once if there is a channel or some channels are poor or noisy, as the system is always be hopping, it can easily ensure the RF connection will be stable. The sequential hops is no any order can follow, is completely random.

(C) EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 40, 56, 40, 48, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

2、Channel List

Frequency	Unit	Channel	Frequency	Unit	Channel
2403	MHz	01	2442	MHz	40
2404	MHz	02	2443	MHz	41
2405	MHz	03	2444	MHz	42
2406	MHz	04	2445	MHz	43
2407	MHz	05	2446	MHz	44
2408	MHz	06	2447	MHz	45
2409	MHz	07	2448	MHz	46
2410	MHz	08	2449	MHz	47
2411	MHz	09	2450	MHz	48
2412	MHz	10	2451	MHz	49
2413	MHz	11	2452	MHz	50
2414	MHz	12	2453	MHz	51
2415	MHz	13	2454	MHz	52
2416	MHz	14	2455	MHz	53

2417	MHz	15	2456	MHz	54
2418	MHz	16	2457	MHz	55
2419	MHz	17	2458	MHz	56
2420	MHz	18	2459	MHz	57
2421	MHz	19	2460	MHz	58
2422	MHz	20	2461	MHz	59
2423	MHz	21	2462	MHz	60
2424	MHz	22	2463	MHz	61
2425	MHz	23	2464	MHz	62
2426	MHz	24	2465	MHz	63
2427	MHz	25	2466	MHz	64
2428	MHz	26	2467	MHz	65
2429	MHz	27	2468	MHz	66
2430	MHz	28	2469	MHz	67
2431	MHz	29	2470	MHz	68
2432	MHz	30	2471	MHz	69
2433	MHz	31	2472	MHz	70
2434	MHz	32	2473	MHz	71
2435	MHz	33	2474	MHz	72
2436	MHz	34	2475	MHz	73
2437	MHz	35	2476	MHz	74
2438	MHz	36	2477	MHz	75
2439	MHz	37	2478	MHz	76
2440	MHz	38	2479	MHz	77
2441	MHz	39	2480	MHz	78