Shenzhen Clou IOT Technologies Co.,Ltd.

Date: 2016-12-27
Subject: Ad Hoc Mode Function Declaration
FCC ID: **2AKAGCLOUIOTCL7206C**

To Whom it may concern,
This device is acting as slave and operating in the FHSS 900MHz (902.75MHz~927.25MHz) band. Ad Hoc function is supported but not able to operate on non-US frequencies. Please contact the one signed below or the authorized agent for this filing.

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses RF radio which operates in 902.75MHz~927.25MHz band. uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 50 bands (0.5 MHz each; centred from 902.75 to 927.25 MHz) in the range 902.75-927.25 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

For example: EUT Pseudorandom Frequency Hopping Sequence Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 30, 36, 10, 16, 12, 09, 01, 09, 33, 14, 11, 05, 13, 32, 19 etc.
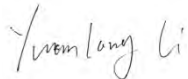
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	902.75	27	915.75
02	903.25	28	916.25
03	903.75	29	916.75
04	904.25	30	917.25
05	904.75	31	917.75
06	905.25	32	918.25
07	905.75	33	918.75
08	906.25	34	919.25
09	906.75	35	919.75
10	907.25	36	920.25
11	907.75	37	920.75
12	908.25	38	921.25
13	908.75	39	921.75
14	909.25	40	922.25

15	909.75	41	922.75
16	910.25	42	923.25
17	910.75	43	923.75
18	911.25	44	924.25
19	911.75	45	924.75
20	912.25	46	925.25
21	912.75	47	925.75
22	913.25	48	926.25
23	913.75	49	926.75
24	914.25	50	927.25
25	914.75		
26	915.25		

Thank you.

Sincerely,

Yuanlong Li

Signatory

2016-12-27

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