

# MC DEVICES CO., LTD.

Date: 2016-11-01

Subject: Ad Hoc Mode Function Declaration

FCC ID: RS5-CROWNBR

To Whom it may concern,

This device is acting as slave and operating in the FHSS 2.4 GHz (2405.377MHz~2477.569MHz) 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 2405.377~2477.569MHz 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 36 bands (2 MHz each; centred from 2405.377 to 2477.569 MHz) in the range 2405.377-2477.569 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.

FHSS Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2405.377	10	2423.809	19	2442.753	28	2461.185
02	2407.425	11	2425.857	20	2444.801	29	2463.233
03	2409.473	12	2427.905	21	2446.849	30	2465.281
04	2411.521	13	2430.465	22	2448.897	31	2467.329
05	2413.569	14	2432.513	23	2450.945	32	2469.377
06	2415.617	15	2434.561	24	2452.993	33	2471.425
07	2417.665	16	2436.609	25	2455.041	34	473.473
08	2419.713	17	2438.657	26	2457.089	35	2475.521
09	2421.761	18	2440.705	27	2459.137	36	2477.569

Thank you.

Jack Yuan

Signature

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