

WH Technology Corp.

Date of Issue: Dec. 14, 2018

Report No.: WH-FCC-R18110203-2

Radio Frequency Exposure

EUT INFORMATION

FCC ID	2ACLCECNSDSBC310H80			
EUT	Embedded computer / module			
Frequency band (Operating)	2412 MHz ~ 2462 GHz			
Max. output power	21.53 dBm			
Antenna gain (Max)	2 dBi			

According to KDB 447498 D01 and FCC 1.1310:The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency Radiation as specified in § 1.1307(b).

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time				
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)					
(A) Limits for Occupational/Control Exposures								
300-1500		F/300		6				
1500-100000			5	6				
(B) Limits for General Population/Uncontrol Exposures								
300-1500		F/1500		6				
1500-100000	1500-100000		1	30				

TEST RESULT

The modular use shall be at least 20cm distance away from human body. MPE Calculation Method

$$E (V/m) = \sqrt{30*P*G}$$

Power Density = Pd (mW/cm^2) = $E^2/3770$

Combine these two formulas can be changed to

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 $Pd = (30*P*G) / (3770*d^2)$

Note:

- 1. "E" means Electric field (V/m).
- 2. "P" means Peak RF output power (W).
- 3. "G" means EUT Antenna numeric gain (numeric).
- 4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.

$$G=10^{(2/10)}=1.585$$

Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Tune-up power (dBm)	Power Density (mW/cm²)	Limit of Power Density (mW/cm²)
802.11b	1	2412	15.98	16±1	0.0158	1
	6	2437	16.33	16±1	0.0158	1
	11	2462	16.22	16±1	0.0158	1
802.11g	1	2412	21.24	22±1	0.0629	1
	6	2437	21.38	22±1	0.0629	1
	11	2462	21.47	22±1	0.0629	1
802.11n HT20	1	2412	21.28	22±1	0.0629	1
	6	2437	21.43	22±1	0.0629	1
	11	2462	21.53	22±1	0.0629	1

Tested By: Reviewed by:

Dec. 14, 2018

(Date)

Bing/Engineer

Dec. 14, 2018

(Date)

Bell/Manager

FCC Designation Number: TW2954

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