

MRT Technology (Suzhou) Co., Ltd

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RF Exposure Evaluation Declaration

FCC ID: 2AG7C303010001

APPLICANT: Hangzhou PPStrong Technology Co., Ltd

Application Type: Certification

Product: Mini

Model No.: 030000

Serial Model No.: 030101, 030201, 030301, 030401, 030501, 030601,

030701, 030801, 030901, 031001

FCC Classification: Digital Transmission System (DTS)

Reviewed By

Manager

Robin Wu

Approved By

CEO

(Marlin Chen)





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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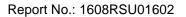
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Revision History

Report No.	Version	Description	Issue Date	Note
1608RSU01602	Rev. 01	Initial report	08-31-2016	Valid





1. PRODUCT INFORMATION

Product Name	Mini		
Model No.	030000		
Serial Model No.	030101, 030301, 030401, 030601		
WLAN Specification			
Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz		
	802.11n-HT40: 2422 ~ 2452 MHz		
Type of Modulation	802.11b: DSSS		
	802.11g/n: OFDM		
Antenna Gain	2.4dBi		
Components			
Adapter	M/N: NBS05B050100VC		
	INPUT: 100-240V ~ 50/60Hz,0.2A		
	OUTPUT: 5Vdc, 1.0A		

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2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)	
(A) Limits for Occupational/ Control Exposures					
300-1500	-	-	f/300	6	
1500-100,000			5	6	
(B) Limits for General Population/ Uncontrolled Exposures					
300-1500			f/1500	6	
1500-100,000	1	-	1	30	

f= Frequency in MHz

Calculation Formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

r = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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2.2. Test Result of RF Exposure Evaluation

Product	Mini
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to Clause 1.2 of antenna description.

For 2.4G ISM Band:

Test Mode	Frequency Band	Maximum Average	Power Density at	Limit
	(MHz)	Output Power	R = 20 cm	(mW/cm ²)
		(dBm)	(mW/cm ²)	
802.11b/g/n	2412 ~ 2462	11.82	0.0053	1

CONCULISON:

Therefore, the Max Power Density at R (20 cm) = 0.0053mW/cm² < 1mW/cm². So the EUT complies with the requirement.

_____ The End _____