

MAXIMUM PERMISSIBLE EXPOSURE(MPE)

Applicable Standard: FCC §2.1091 §15.247(i)

According to FCC §15.247(i) and subpart§1.1307(b)(l), systems operating under provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure(MPE)(§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz;

*=Plane-wave equivalent power density;

MPE Calculation

Predication of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Test Result: Pass. The device meets FCC MPE limit at 20cm distance.

Mode	Frequency (MHz)	Port	power (dBm)	Combined power(dBm)	Antenna Gain(dBi)	Evaluation Distance(cm)	Power Density (mW/ cm ²)	MPE limit (mW/ cm ²)
802.11b	2437	1	14.71	17.68	5	20	0.0369	1.0
		2	14.62					
802.11g	2437	1	14.82	17.76	5	20	0.0376	1.0
		2	14.68					
802.11.n 20	2412	1	14.50	17.39	5	20	0.0345	1.0
		2	14.26					
802.11.n 40	2437	1	14.85	17.78	5	20	0.0378	1.0
		2	14.68					

Date: 2014-12-31

Signature: 

Name: Qi Luxing Certification manager

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