

# **FCC RF EXPOSURE REPORT**

**FCC ID: 2ABZMW175AP**

**Project No. : 1502C009**  
**Equipment : 1350M 11AC High Power Ceiling Access Point**  
**Model : W175AP**  
**Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD.**  
**Address : Room 101, Unit A, First Floor, Tower E3, No.**  
**1001, Zhongshanyuan Road, Nanshan District,**  
**Shenzhen, China 518052**

**According: : FCC Guidelines for Human Exposure IEEE**  
**C95.1**

**B T L I N C .**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the 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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	IP-COM	N/A	Internal	lpex	3.00	2.4G
2	IP-COM	N/A	Internal	lpex	3.00	2.4G
3	IP-COM	N/A	Internal	lpex	3.00	2.4G
1	IP-COM	N/A	Internal	lpex	3.00	5G
2	IP-COM	N/A	Internal	lpex	3.00	5G

### 2.4G Only MPE

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3.00	1.9953	23.73	236.0478	0.09374549	1	Complies

### 5G Only MPE

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
3.00	1.9953	15.90	38.9045	0.01545078	1	Complies

### So for 2.4G+5G simultaneous transmission MPE:

$$0.0937/1+0.0155/1=0.1092<1$$

Note: the calculation distance is 20cm.