

# Declaration of Compliance

FCC ID: OS3WPS01  
 Product Name: WiFi Smart Plug  
 Model No: WPS1201

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits For Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	...	...	f/300	6
1500-100,000	...	...	5.0	6
(B) Limits For General Population / Uncontrolled Exposure (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

## 2. MPE Calculation

Based on safety distance 20cm, the antenna gain is -1.13dBi, and the power output is 74.82mW, the power density is 0.0115mW/cm<sup>2</sup>

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = Power Density in mW/cm<sup>2</sup>

P = 18.74dBm = 74.82mW

G = -1.13dBi = 0.771 Numerical

r = 20cm

$$S = 74.82 * 0.771 / (4 * \pi * 20^2) = 57.686 / 5026.548 = 0.0115 \text{ mW/cm}^2$$

Sincerely Yours,

Lizhi Li 2013-11-15

Mr. Lizhi Li

Engineer

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