

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 ²) | 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/cm²

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/cm²

$$P = 18.74\text{dBm} = 74.82\text{mW}$$

$$G = -1.13\text{dBi} = 0.771 \text{ Numerical}$$

$$r = 20\text{cm}$$

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

Sincerely Yours,

Lizhi Li 2013-11-15
Mr. Lizhi Li
Engineer
Zhuhai FTZ Oplink Communication, Inc.