

Loopcomm Technology,.Inc.
6F., No.236, Bo'ai St., Shulin Dist., New Taipei City 23845 Taiwan

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product
Product description: Outdoor Long Range 802.11a/n 5GHz Wi-Fi AP/CPE/Bridge
Model No: LP-2596K

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

A safety statement concerning minimum separation distances from enclosure of the Product : Outdoor Long Range 802.11a/n 5GHz Wi-Fi AP/CPE/Bridge will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21410-14572-C-54 and the accompanying calculations.

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Address: 6F., No. 236, Bo'ai St., Shulin Dist., New Taipei City 23845 Taiwan

Date: 2014/12/03

Signature

Versus



Registration number: W6M21410-14572-C-54
FCC ID: VYTLP2596KUS

3.9 Radio Frequency Radiation Exposure, FCC 15.407 (f)

Because the intended use of the test sample as a fixed device a theoretical MPE related evaluation

As an example is done below, for information purposes.

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF field and applicable limits.

The prediction for power density in the far-field of the antenna can be made by the general equation below.

The equation is generally accurate in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

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

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain G = AG-D

Band 2

Item	Unit	Value	Explanation
P	mW	9.2683	Peak value
D	dB		
AG	dBi	17.01	
G		50.2343	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0926	Calculated value

Band 3

Item	Unit	Value	Explanation
P	mW	9.3756	Peak value
D	dB		
AG	dBi	17.01	
G		50.2343	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0937	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0