

**Amped Wireless**  
**13089 Peyton Dr. #C307 Chino Hills California 91709 United States**

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: High Power 600mW Compact Wi-Fi Range Extender  
Model No: REC10

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.

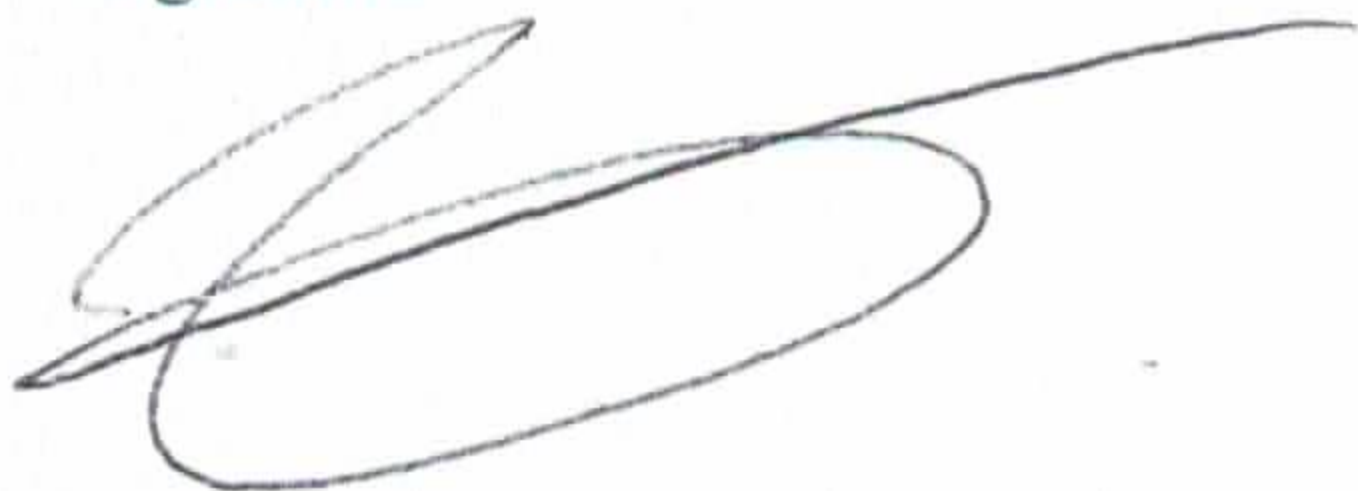
A safety statement concerning minimum separation distances from enclosure of the Product : High Power Compact Wi-Fi Range Extender will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6R21309-13524-C-1 and the accompanying calculations.

Company: Amped Wireless  
Address: 13089 Peyton Dr. #C307 Chino Hills California 91709 United States

Date: 2013/11/21

Signature

A handwritten signature in black ink, consisting of a large, stylized loop followed by a horizontal line extending to the right.



Registration number: W6R21309-13524-C-1  
 FCC ID: ZTT-REC10-2

**3.2 Equivalent isotropic radiated power**

FCC Rule: 15.247(b)(3)  
 EIRP = max. conducted output power + antenna gain

802.11b/g  
 EIRP = 25.73 dBm + 5.26 dBi  
 = 30.99 dBm  
 802.11n(20MHz), 802.11n(40MHz)  
 EIRP = 25.98 dBm + 5.26 dBi  
 = 31.24 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

**3.3 RF Exposure Compliance Requirements**

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

The prediction for power density 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

802.11b/g

Item	Unit	Value	Remarks
P	mW	374.1106	Peak value
D	dB		
AG	dBi	5.26	
G		3.3574	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.2499	Calculated value

802.11n(20MHz), 802.11n(40MHz)

Item	Unit	Value	Remarks
P	mW	396.38	Peak value
D	dB		
AG	dBi	5.26	
G		3.3574	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.2648	Calculated value

Limits:

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