

**Legrand Home Systems**  
**301 Fulling Mill Road Suite G Middletown Pennsylvania 17057**  
**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: Outdoor 802.11n Wireless Access Point  
Model No: DA2131-V1A

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.

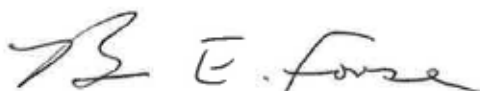
A safety statement concerning minimum separation distances from enclosure of the Product : Outdoor 802.11n Wireless Access Point will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6R21310-13590-C-1 and the accompanying calculations.

Company: **Legrand Home Systems**  
Address: **301 Fulling Mill Road Suite G Middletown Pennsylvania 17057 United States**

Date: 31/10/2013

Signature





Registration number: W6R21310-13590-C-1

FCC ID: YV8-DA2131-V1A

**3.2 Equivalent isotropic radiated power**

FCC Rule: 15.247(b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

Item	Unit	Value	Remarks
P	mW	222.8435	Peak value
D	dB		
AG	dBi	12.25	
G		16.7880	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.7443	Calculated value

Limits:

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