

# MPE CALCULATION

**FCC ID: I28-W2WLAN11G**

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2412~2462 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 – 1500 GHz
Power Density Limit:	1 mW/ cm <sup>2</sup> ;

**Equation:**  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

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Low Channel (2412 MHz): Power = 12.3dBm, Antenna Gain = 1.3 dBi, Prediction distance 20cm

**S = 0.0046 mW/cm<sup>2</sup>**

## Result

The Above Result had shown that Device complied with 1 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

Completed By : David

Date : March 10, 2011