MPE CALCULATION

For Intelicis – 802.11 a/b/g Dual Radio AP; Model: Cedar880AG

FCC ID: U3HCEDAR880AG

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 and 5745 – 5825 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1.5 – 100 GHz
Power Density Limit:	1 mW/ cm^2;

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

802.11b, Power = 21.1dBm , Antenna Gain =2dBi , distance 20cm

S = 0.0406 mW/cm^2

802.11g, Power = 24.7dBm, Antenna Gain = 2dBi, Distance = 20cm

S = 0.093 mW/cm^2

802.11a , Power = 22.0 dBm , Antenna Gain = 3dBi, Distance = 20 cm

S = 0.06219 mW/cm^2

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

Completed By : Kent Kim

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