July 17, 2007

ARUB12-A2 Aruba Networks – 802.11 a/b/g Wireless Access Point AP-65

Maximum Permissible Exposure Calculations

FCC, Part 15 Subpart C §15.247(i)

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm^2) = EIRP/($4\pi d^2$)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm^2

Freq. Band (GHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm^2 Limit (cm)
2.4(b)	2.5	1.78	+17.85	60.95	2.94
2.4(g)	2.5	1.78	+21.92	155.60	4.70
5.8	3.0	1.99	+21.90	154.88	4.96