

August 27, 2007

MLWI01– A2 – Meshlinx Multi-Radio Access Point MWI5000

Maximum Permissible Exposure Calculations

FCC, Part 15 Subpart C §15.247(i)

Industry Canada RSS-Gen §5.5

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4\pi d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10^{(G \text{ (dBi)}/10)}$

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

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)
2.4b	+7.5	5.63	+18.45	69.99	5.6
2.4g	+7.5	5.63	+24.19	262.43	10.9
5.8	+9.0	7.95	+23.54	225.95	12.0