

Tropos Networks									
FCC ID: P9J-BF4P9									
Dual radio wireless router						Calculate mW/cm2 here. Enter frequency in MHz:			
2.4GHz 802.11 bg and 4.9 GHz Part 90Y Public Safety									
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1			
								Controlled Ave 6 min	Uncontrolled Ave 30 min
mW/cm2 from Table1:		1.00				F(MHz)	Actual F, MHz	Occ, mW/c2	Gen, mW/cm2
						0.3-3	0.5	100.0	100.0
Max RF Power	TX Antenna	MPE distance	S, mW/cm@	Comment		3.0 - 30.0	5	180.0	36.0
P, dBm	G, dBi	cm	at 20 cm			30.0-300	55	1.0	0.2
						300-1500	902	3.0	0.60
20.0	9.00	8.0	0.16	90Y		1500-100000	5555	5.0	1.0
24.0	12.0	17.8	0.79	802.11bg					
						Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent Watts
Basis of Calculations:						895.4	29.52	29.52	895.4
E^2/3770 = S, mW/cm2									
E, V/m = (Pwatts*Ggain*30)^.5/d, meters									
d = ((Pwatts*G*30)/(3770*S))^0.5		Pwatts*Ggain = 10^(PdBm-30+GdBi)/10)							
S@20cm = 20 log (MPE dist/20cm)									
NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm, even if calculations indicate MPE distance is less									