

Tropos Networks									
FCC ID: P9J-2411									
Wireless router radio module						Calculate mW/cm2 here. Enter frequency in MHz:			
2.4GHz 802.11 bg									
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
28.6	6.00	15.1	0.57	6 dBi p2mp		1500-100000	5555	5.0	1.0
28.6	7.40	17.7	0.78	7.4 dBi p2mp					
24.0	12.00	17.8	0.79	12 dBi p2mp					
28.6	12.00	30.2	2.28	12 dBi p2p		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									