

Alvarion Ltd.									
FCC ID: LKT-BNETB-49									
Dual Band Radio					Calculate mW/cm2 here. Enter frequency in MHz:				
5.8 GHz (15.247) 4.9 GHz (Part 90Y)									
RF Hazard Distance Calculation					Calculation of Limits from 1.1310 Table 1				
							Controlled	Uncontrolled	
							Ave 6 min	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	
9.0	23.00	11.2	0.32	90Y	1500-100000	5555	5.0	1.0	
23.7	28.0	108.5	29.43	15.247					
					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)^.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									