

Alvarion Ltd.									
LKT-EXTR-CPE-49H									
4.9/5.8 GHz Subscriber Station									
					<b>Calculate mW/cm2 here. Enter frequency in MHz:</b>				
<b>RF Hazard Distance Calculation</b>					Calculation of Limits from 1.1310 Table 1				
							Controlled	Uncontrolled	
<b>mW/cm2 from Table1:</b>							Ave 6 min	Ave 30 min	
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	896	3.0	0.60	
23.70	28.00	108.5	29.43	Part 90 4.9GHz	1500-100000	5555	5.0	1.0	
27.3	28.0	164.2	67.41	Part 15 5.8GHz					
					<b>Enter P(mW)</b>	Equivalent dBm	<b>Enter dBm</b>	Equivalent Watts	
<b>Basis of Calculations:</b>					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									
S@20cm = 20 log (MPE dist/20cm)									
Pwatts*Ggain = 10^(PdBm-30+GdBi)/10)									
<b>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</b>									