

Arcadian Networks									
FCC ID: V72AE110W									
902-928 MHz Part 15 FHSS Radio					Calculate mW/cm2 here. Enter frequency in MHz:				
787-788 MHz Part 27 Radio									
RF Hazard Distance Calculation					Calculation of Limits from 1.1310 Table 1				
		Part 15		Part 27				Controlled	Uncontrolled
mW/cm2 from Table1:		0.60		0.52				Ave 6 min	Ave 30 min
						F(MHz)	Actual F, MHz	Occ, mW/c2	Gen, mW/cm2
Max RF Power		TX Antenna	MPE distance	S, mW/cm@	Comment	0.3-3	0.5	100.0	100.0
P, dBm	G, dBi	cm	at 20 cm			3.0 - 30.0	5	180.0	36.0
						30.0-300	55	1.0	0.2
						300-1500	787	2.6	0.52
24.92	3.00	9.1	0.12	Part 15		1500-100000	5555	5.0	1.0
28.2	14.0	50.4	3.30	Part 27					
NOTE:									
Antennas	Not Co-located					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									