Silver Spring Networks

FCC ID: OWS-NIC44

896 - 928 MHz   **Calculate mW/cm2 here. Enter frequency in MHz:**

Electric Meter Mesh Network Radio

RF Hazard Distance Calculation   Calculation of Limits from 1.1310 Table 1

									Controlled	Uncontrolled
									Ave 6 min	Ave 30 min
mW/cm2 from Table1:		*0.60*				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 MPE distance			**30.0-300**	**55**		**1.0**	**0.2**
						300-1500	*896*		*3.0*	*0.60*
29.95	6.00	22.8	0.6000			1500-100000	5555		5.0	1.0
						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**