

Silver Spring Networks										
FCC ID: OWS-NIC714										
External antenna										
Calculate mW/cm2 here. Enter frequency in MHz:										
User Manual										
Calculation of Limits from 1.1310 Table 1										
S1 for 900 MHz		0.60	maximum	RFx distance, cm	20	F(MHz)		Actual F, MHz	Controlled	Uncontrolled
S3 for 2.4 GHz		1.00	maximum			0.3-3		0.5	Occ, mW/c2	Gen, mW/cm2
Max RF Power	TX Antenna	MPE distance	S, mW/cm2	S, mW/cm2 at	Comment 1	Comment 2	3.0 - 30.0	5	180.0	36.0
P, dBm	G, dBi	cm	at 20 cm dist	20			30.0-300	55	1.0	0.2
				cm			300-1500	902	3.0	0.60
29.6	3.00	15.5	0.359	0.359	900 MHz FHSS	Internal antenna	1500-100000	5805	5.0	1.0
26.6	3.6	9.1	0.207	0.207	2.4 GHz FHSS	Internal antenna				
							Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent Watts
							% 900MHz RFx	59.8%		
							% 2.4 GHz RFx	20.7%		
							Total RFx	80.52%		
Basis of Calculations:							555	27.44	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@dist2 = S@MPEdist(MPE/dist2)^2										
Pwatts*Ggain = 10^(PdBM-30+GdBi)/10)										
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										