

15.407(f) RF Exposure Information

Worst case MPE Calculations : 15 dBm into 18 dBi Antenna (CPE):

RF Hazard Distance Calculation

mW/cm2 from Table1:		1.00
Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
15.0	18.0	12.6

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} * G_{\text{gain}} * 30) / 3770 * S)^{.5}$$

$$P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$

NOTE: To meet FCC requirements for fixed location transmitters, minimum separation distance is 1.5m, even if calculations indicate MPE distance is less

The user manual will require a minimum separation of 1.5m for this product. Refer to user manual page, separate attachment.