

Cisco Systems					
FCC ID:	LDK102047 and LDK102047P				
RF Hazard Distance Calculation					
mW/cm2 from Table1:		1.00			
Max RF Power	TX Antenna	MPE			
P, dBm	G, dBi	Safe Distance, cm			
24.0	9.5	13.3			
24.0	10.0	14.1			
24.0	23.0	63.2			
22.0	29.5	106.0			
Basis of Calculations:					
$E^2/3770 = S, \text{ mW/cm}^2$					
$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$					
$d = ((P_{\text{watts}} * G * 30) / 3770 * S)^{.5}$ $P_{\text{watts}} * G_{\text{gain}} = 10^{(Pd\text{Bm} - 30 + Gd\text{Bi}) / 10}$					
NOTE: Installation manual will specify minimum separation distance is 2m even if calculations indicate MPE distance is less					