

WJ Communications Inc.									
FCC ID: NTTSR320									
902-928 MHz RFID Reader						Calculate mW/cm2 here. Enter frequency in MHz:			
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1			
								Controlled Ave 6 min	Uncontrolled 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 20 cm			30.0-300	55	1.0	0.2
						300-1500	902	3.0	0.60
28.58	6.75	21.3	0.68			1500-100000	5555	5.0	1.0
						Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent Watts
Basis of Calculations:						64	18.1	18.1	64.6
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									