

The CDR-915 module is a frequency hopping spread spectrum transmitter operating in the frequency band of 902 MHz to 928 MHz with 0.200 watt output power.								
	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.							
	dBi = dB gain compared to an isotropic radiator.							
	S = power density in mW/cm^2				Antenna Gain (dBi)		9	
		Output Power		dBd + 2.17 = dBi		dBi to dBd	2.17	
Tx Frequency (MHz)	915	(Watts)	0.2000		Antenna Gain (dBd)		2.83	
Cable Loss (dB)	0.0	(dBm)	23.01		Antenna minus cable (dBi)		9.00	
Calculated ERP (mw)		963.896			Radiated (ERP) dBm		29.840	
Calculated EIRP (mw)		1588.656			Radiated (EIRP) dBm		32.010	
Occupational Limit		Power density (S) EIRP ----- = mW/cm^2 4 p r^2 r (cm) EIRP (mW)						
3.05	mW/cm^2							
General Public Limit								
0.61	mW/cm^2							
		FCC radio frequency radiation exposure limits per 1.1310						
		Frequency (MHz)	Occupational Limit	Public Limit				
		300-1,500	f/300	f/1500				
		1,500-10,000	5	1				
		EIRP	Distance	Distance	S			
		watts	cm	inches	mW/cm^2			
		1588.656	100.00	39.37	0.01264			
		1588.656	75.00	29.53	0.02247			
		1588.656	50.00	19.69	0.05057			
		1588.656	40.00	15.75	0.07901			
		1588.656	35.00	13.78	0.10320			
		1588.656	30.00	11.81	0.14047			
		1588.656	25.00	9.84	0.20227			
		1588.656	24.75	9.74	0.20638			
		1588.656	24.50	9.65	0.21061			
		1588.656	24.25	9.55	0.21498			
		1588.656	24.00	9.45	0.21948			
		1588.656	23.75	9.35	0.22413			
		1588.656	23.50	9.25	0.22892			
		1588.656	23.25	9.15	0.23387			
		1588.656	23.00	9.06	0.23898			
		1588.656	22.00	8.66	0.26120			
		1588.656	21.00	8.27	0.28667			
		1588.656	20.00	7.87	0.31605			
		1588.656	19.00	7.48	0.35020			
		1588.656	18.00	7.09	0.39019			
		1588.656	17.00	6.69	0.43744			
		1588.656	16.00	6.30	0.49383			
		1588.656	15.00	5.91	0.56187			
		1588.656	14.50	5.71	0.60129			
		1588.656	10.00	3.94	1.26421			
		1588.656	7.00	2.76	2.58003			
		1588.656	6.50	2.56	2.99222			