

Ubiquity	Model: M900L	Test Number: 110407					
MPE Calculator	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 <sup>2</sup>						
				Antenna Gain (dBi)		16	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2	
Tx Frequency (MHz)	915	Maximum (Watts)	0.0883		Antenna Gain (dBd)	13.83	
Cable Loss (dB)	0.0	(dBm)	19.46		Antenna minus cable (dBi)	16.00	
	Calculated ERP (mw)	2133.192		EIRP = Po(dBm) + Gain (dB)			
	Calculated EIRP (mw)	3515.847			Radiated (EIRP) dBm	35.460	
				ERP = EIRP - 2.17 dB			
	<b>Occupational Limit</b>	<div style="border: 1px solid black; padding: 5px;">           Power density (S)            EIRP            ----- = mW/cm<sup>2</sup>            4 π r<sup>2</sup>            r (cm) EIRP (mW)         </div>				Radiated (ERP) dBm	33.290
	3.05000 mW/cm <sup>2</sup>						
	30.50000 W/m <sup>2</sup>						
	<b>General Public Limit</b>						
	0.61000 mW/cm <sup>2</sup>						
	6.10000 W/m <sup>2</sup>						
	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				
	FCC radio frequency radiation exposure limits per 1.1310						
	Frequency (MHz)	Occupational Limit @ Tx Freq	Public Limit @ Tx Freq (mW/cm <sup>2</sup> )				
	300-1,500 (mW/cm2)	3.05	0.61				
	300-1,500 (W/m2)	30.5	6.1				
	1,500-10,000 (mW/cm2)	5	1				
	1,500-10,000 (W/m2)	50	10				
EIRP	S	S	Distance	Distance	Distance	Distance	
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet	
3515.847	0.02798	0.27978	100.00	1.00	39.37	0.08	
3515.847	0.11191	1.11913	50.00	0.50	19.69	0.04	
3515.847	0.17486	1.74864	40.00	0.40	15.75	0.03	
3515.847	0.31087	3.10869	30.00	0.30	11.81	0.03	
3515.847	0.69946	6.99456	20.00	0.20	7.87	0.02	
3515.847	0.86353	8.63525	18.00	0.18	7.09	0.02	
3515.847	1.24348	12.43477	15.00	0.15	5.91	0.01	
3515.847	1.42746	14.27460	14.00	0.14	5.51	0.01	
3515.847	1.65552	16.55516	13.00	0.13	5.12	0.01	
3515.847	1.94293	19.42932	12.00	0.12	4.72	0.01	
3515.847	2.79782	27.97822	10.00	0.10	3.94	0.01	
3515.847	3.45410	34.54102	9.00	0.09	3.54	0.01	
3515.847	4.37160	43.71597	8.00	0.08	3.15	0.01	
3515.847	5.70984	57.09841	7.00	0.07	2.76	0.01	
3515.847	7.77173	77.71729	6.00	0.06	2.36	0.01	
3515.847	11.19129	111.91289	5.00	0.05	1.97	0.00	
3515.847	69.94556	699.45558	2.00	0.02	0.79	0.00	
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)	
		Frequency (MHz)					
		300-1,500	0.07	7.0 / 2.8	0.10	10 / 3.9	
		1,500-10,000	N/A	N/A	N/A	N/A	

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 Revision 1

Ubiquiti Networks, Inc.  
 Model: NanoStation M900  
 Test #: 110427  
 Test to: CFR47 (15.247), RSS-210  
 File: RFExp M900L

SN: 1104L00272206E31D  
 FCC ID#: SWX-M900L  
 IC: 6545A-M900L  
 Date: June 16, 2011  
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