

Connecticut Market



Worst Case Power Density

Site: CTNL804B
Site Address: 387 Shore Road
Town: East Lyme
Tower Height: 80 ft.
Facility Style: Monopole

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	8	Number of channels	2
Antenna Model	APX16DWV-16DWV	Antenna Model	APX16DWV-16DWV
Cable Size	7/8 in.	Cable Size	7/8 in.
Cable Length	110 ft.	Cable Length	110 ft.
Antenna Height	77.0 ft.	Antenna Height	77.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	18.0 dBi	Antenna Gain	18.0 dBi
Cable Loss per foot	0.0186 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	2.0460 dB	Total Cable Loss	1.2760 dB
Total Attenuation	6.5460 dB	Total Attenuation	2.7760 dB
Total EIRP per Channel (In Watts)	54.46 dBm 279.53 W	Total EIRP per Channel (In Watts)	61.24 dBm 1331.86 W
Total EIRP per Sector (In Watts)	63.50 dBm 2236.25 W	Total EIRP per Sector (In Watts)	64.25 dBm 2663.73 W
nsg	11.4540	nsg	15.2240
Power Density (S) = 0.097325 mW/cm ²		Power Density (S) = 0.115929 mW/cm ²	
T-Mobile Worst Case % MPE = 21.3254%			

Equation Used :

$$S = \frac{(1000)(grf)^2(Power)^*10^{(nsg/10)}}{4\pi(R)^2}$$

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Co-Location Total

Carrier	% of Standard
Verizon	0.0000 %
Cingular	0.0000 %
Sprint	0.0000 %
AT&T Wireless	0.0000 %
Nextel	0.0000 %
MetroPCS	
Other Antenna Systems	0.0000 %
Total Excluding T-Mobile	0.0000 %
T-Mobile	21.3254
Total % MPE for Site	21.3254%