GPS Networking Link B

The following spreadsheet calculates the effective radiated power for a GPS Networking reradiati components for the strongest repeating path in your system into the section with the red border. measured 100 FT outside of the reradiated structure.











udget Calculator

ng system as well as the effective signal power at given range in dBm. Enter the NTIA regulations require that the repeated signal be weaker than -140 dBm when

Distance to Nearest External Wall (FT) Signal Power at Nearest External Wall Building Signal Power at 100' Outside of Nearest External Wall In dBm

45	-134.26	-144.42
Range in Miles	Total Signal Power @ Range in Watts	
0.01	37.5E-18	
Range in Meters	Radiated Power dBm	
13.72	-75.1	
Range in Kilometers	Power (pW)	
0.01	15.49 Effective Radiated Power (pW)	
	30.90	
	Effective Radiated Power (dBW)	
	-105.1	

	Cable Runs	
	Feet of Cable	Cable Losses
-6	100	-6
-17.5	10	-1.75
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
-16.6	50	-8.3
		0

-17.5	6	-1.05
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0



