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OURCE

## GPS Networking Link Budget Calculator

## PSA Airlines ORF Hangar 1

FRN:0004415857

Repeated Signal Dower @ 100'

The following spreadsheet calculates the effective radiated power for a GPS Networking reradiating system as well as the effective signal power at given range in dBm. Enter the components for the strongest repeating path in your system into the section with the red border. NTIA regulations require that the repeated signal be weaker than -140 dBm when measured 100 FT outside of the reradiated structure. Please feel free to reach out to GPS Networking if you need assistance.

				0 0 ( /		
33	-3	25	2	12	-120.68	-140.0772932
GPS Carrier Frequency MHz			Total System Gain	Range in Miles	Total Signal Power @ Range in Watts	
1575	5		57	0.00	855.7E-18	
Avg Receive Power L1 dBm North America				Pango in Motors	Padiated Power dBm	
Free Space loss with Isotropic Antennas				3.74	-73	
-47.68	3					
				Range in Kilometers	Transmitted Power (W) 25 1E-12	
System Receive Antenna				0.00	20.12 12	
Part Number	Gain/Loss (dB)				Effective Radiated Power (W)	
I 1GPSA-N	33				50 1E-12	
					00.12 12	
					Effective Radiated Power (dBW)	
Rassiva Components (Course Lo					-103	
Passive components (cause Lo	55)					
Part Number	Gain/Loss (dB)					
Amplified Components (Cause						
Part Number	Gain/Loss (dB)					
LA30RPDC	25					
Repeating Antennas						
Dert Number	Cain/Loss (dD)					
	Gain/Loss (ub)					
LIFRRA-S	2					
Cable Runs						
	Loss Per 100 Feet					
Cable Type	(LMR400) = -6	Feet of Cable	Cable Losses			
LMR400	-6	50	-3	1		
			0			