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Link Budget Calculations

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	EIRP @ Range In dBm
30	-10	30	3	100	-143.09
GPS Carrier Frequency MHz		Total System Gain		Range in Miles	Total Signal Power @ Range in Watts
1575		53		0.02	4.9E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-77
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-66.09				0.03	10.0E-12
					Effective Isotropic Radiated Power (W)
					20.0E-12
					Effective Radiated Power (dBW)
					-107



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