

GPS Networking Link Budget Calculator

	Change the values in th	e yellow boxes to ca	lculate required readings	LMR-400 Coax	
	-140 or less at a ra	nge of 100 feet to m	eet NTIA regulations		
	100 ft LMR-400				
Receive Ant Gai	in Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
30	-2.7	25	3	100	-140.79
GPS Carrier Frequency MHz			Total System Gain	Range in Miles	Total Signal Power @ Range in Watts
	1575		55.3	0.02	8.3E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
	-130			31.17	-74.7
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-66.09				0.03	17.0E-12
					Effective Radiated Power (W)
					33.9E-12
					Effective Radiated Power (dBW)
					-104.7

