

GPS Networking Link Budget Calculator

er o receiver in B and bet editated.					
	Change the values in th	e yellow boxes to ca	LMR-400 Coax		
	-140 or less at a ra	nge of 100 feet to m			
100 ft LMR-400					
Receive Ant Gai	n Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
38	-2.1	25	3	290	-141.44
GPS Carrier Frequency MHz			Total System Gain	Range in Miles	Total Signal Power @ Range in Watts
	1575		63.9	0.05	7.2E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
	-130			90.39	-66.1
Free Space loss with Isotropic Antennas			Range in Kilometers	Transmitted Power (W)	
-75.34				0.09	123.0E-12
					Effective Radiated Power (W)
					245.5E-12
					Effective Radiated Power (dBW)
					-96.1

