GPS Source, Inc. Repeater Budget Calculator

Change the values in the yellow boxes to calculate required readings				-140 dBm at 100 feet from the building to meet NTIA regulations		
Receive Ant Gain	Ant Cable Insertion Loss -5.66	Repeater Amp Gain	Repeater Ant Gain (Best Case) 3	Range in Feet	Repeated Signal Power @ Range In dBm -140.75	Total Signal Power @ Range in Watts 8.4e-18
	GPS Carrier Frequency (MHz) 1575	Free Space loss with Isotropic Antennas 66.09	Total System Gain 52.34	Range in Miles 0.02	Effective Radiated Power dBm -76.81	Effective Radiated Power (dBW) -106.81
	Avg Receive Power in dBm North America -130	Reference Dipole Gain 2.15	Transmitted Power (W) 1.0e-11	Range in Kilometers 0.03	Effective Isotropic Radiated Power (dBm) -74.66	Effective Isotropic Radiated Power (dBW) -104.66
	Typical value @ L1: -130.0 dBm @ L2: -127.5 dBm			Range in Meters 30.4800		Effective Radiated Power (W) 2.1e-11