

Change the values in the yellow boxes to calculate required readings

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
36	-8	19	10	100	-139.09

GPS Carrier Frequency MHz	1575	Total System Gain	57	Range in Miles	0.02	Total Signal Power @ Range in Watts	12.3E-18
Avg Receive Power L1 dBm North America	-130			Range in Meters	31.17	Radiated Power dBm	-73
Free Space loss with Isotropic Antennas	-66.09			Range in Kilometers	0.03	Transmitted Power (W)	25.1E-12
						Effective Radiated Power (W)	19.2E-12
						Effective Radiated Power (dBW)	-103