

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