

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	-6	13	10	100	-143.09
GPS Carrier Frequency MHz			Total System Gain	Range in Miles	Total Signal Power @ Range in Watts
1575			53	0.02	4.9E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-77
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (pW)
-66.09				0.03	9.6
					Effective Radiated Power (pW)
					19.2
					Effective Isotropic Radiated Power (pW)
					31.5
					Effective Radiated Power (dBW)
					-107