



Change the values in the yellow boxes to calculate required readings

-140 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
38	-10	24	3	100	-141.09

GPS Carrier Frequency MHz			Total System Gain	Range in Miles	Total Signal Power @ Range in Watts
	1575		55	0.02	7.8E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
	-130			31.17	-75
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
	-66.09			0.03	15.8E-12
					Effective Radiated Power (W)
					31.6E-12
					Effective Radiated Power (dBW)
					-105