

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
38	-10	22	3	100
GPS Carrier Frequency MHz		Total System Gain		Range in Miles
1575		53		0.02
Avg Receive Power L1 dBm North America				Range in Meters
-130				31.17
Free Space loss with Isotropic Antennas				Range in Kilometers
-66.09				0.03

Repeated Signal Power @ Range In dBm

-143.09

Total Signal Power @ Range in Watts

4.9E-18

Radiated Power dBm

-77

Transmitted Power (W)

10.0E-12

Effective Radiated Power (W)

20.0E-12

Effective Radiated Power (dBW)

-107