



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	-10.1	30	3	200	-141.21

GPS Carrier Frequency MHz
1575

Total System Gain
60.9

Range in Miles
0.04

Total Signal Power @ Range in Watts
7.6E-18

Avg Receive Power L1 dBm North America
-130

Range in Meters
62.34

Radiated Power dBm
-69.1

Free Space loss with Isotropic Antennas
-72.11

Range in Kilometers
0.06

Transmitted Power (W)
61.7E-12

Effective Radiated Power (W)
123.0E-12

Effective Radiated Power (dBW)
-99.1

