



Your source for quality GNSS Networking Solutions and Design Services, Now!

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
30	-7.5	28	3	100
	GPS Carrier Frequency MHz 1575		Total System Gain 53.5	Range in Miles 0.02
	Avg Receive Power L1 dBm North America -130			Range in Meters 31.17
	Free Space loss with Isotropic Antennas -66.09			Range in Kilometers 0.03



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Repeated Signal Power @ Range In dBm

-142.59

Total Signal Power @ Range in Watts

5.5E-18

Radiated Power dBm

-76.5

Transmitted Power (W)

11.2E-12

Effective Radiated Power (W)

22.4E-12

Effective Radiated Power (dBW)

-106.5