



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
38	-10	20	3	100
GPS Carrier Frequency MHz		Total System Gain		Range in Miles
1575		51		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



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Repeated Signal Power @ Range In dBm

-145.09

Total Signal Power @ Range in Watts

3.1E-18

Radiated Power dBm

-79

Transmitted Power (W)

6.3E-12

Effective Radiated Power (W)

12.6E-12

Effective Radiated Power (dBW)

-109