

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 | -9 | 20 | 3 | 100 |
| | GPS Carrier Frequency MHz | | Total System Gain | Range in Miles |
| | 1575 | | 52 | 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

-144.09

Total Signal Power @ Range in Watts

3.9E-18

Radiated Power dBm

-78

Transmitted Power (W)

7.9E-12

Effective Radiated Power (W)

15.8E-12

Effective Radiated Power (dBW)

-108