

Change the values in the yellow boxes to calculate required readings



Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
36	-8	17	10	100	-141.09

GPS Carrier Frequency MHz  
1575

Total System Gain  
55

Range in Miles  
0.02

Total Signal Power @ Range in Watts  
7.8E-18

Avg Receive Power L1 dBm North America  
-130

Range in Meters  
31.17

Radiated Power dBm  
-75

Free Space loss with Isotropic Antennas  
-66.09

Range in Kilometers  
0.03

Transmitted Power (W)  
15.8E-12

Effective Radiated Power (W)  
31.6E-12

Effective Radiated Power (dBW)  
-105