



Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet
35	-10	24.5	3	100
GPS Carrier Frequency MHz		Total System Gain		Range in Miles
1227.6		52.5		0.02
Avg Receive Power L1 dBm North America				Range in Meters
-130				30.48
Free Space loss with Isotropic Antennas				Range in Kilometers
-63.93				0.03



Repeated Signal Power @ Range In dBm

-141.43

Total Signal Power @ Range in Watts

$7.2\text{E-}18$

Radiated Power dBm

-77.5

Transmitted Power (W)

$8.9\text{E-}12$

Effective Radiated Power (W)

$17.8\text{E-}12$

Effective Radiated Power (dBW)

-107.5