GPS Networking Link Budget Calculator

Change the values in the yellow boxes to calculate required readings

-140 or less at a range of 100 feet to meet NTIA regulations

https://www.gpsnetworking.com/linkbudget

Nissan Values

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
38	-12	18	3	20	-135.11

GPS Carrier Frequency MHz
1575

Avg Receive Power L1 dBm North America
-130

Free Space loss with Isotropic Antennas
-52.11

Total System Gain
47

Range in Miles
0.00

Range in Meters
6.23

Range in Kilometers
0.01

Total Signal Power @ Range in Watts
30.8E-18

Radiated Power dBm
-83

Transmitted Power (W)
2.5E-12

Effective Radiated Power (W)
5.0E-12

Effective Radiated Power (dBW)
-113

If you need assistance with the calculations, please do not hesitate to call us toll-free at 1-800-463-3063