

Change the values in the yellow boxes to calculate required readings -140 or less at a range of 100 feet beyond the nearest external wall is required to meet NTIA regulations

Receive Ant Gain (dBm)	Cable Insertion Loss (dBm)	Repeater Amp Gain (dBm)	Repeater Ant Gain Best Case (dBi)	Range in Feet	Effective Isotropic Radiated Power @ Range In dBm
40	-4.3	30	-6	187	-141.66
	GPS Carrier Frequency MHz 1227		Total System Gain 59.7	Range in Miles 0.04	Total Signal Power @ Range in Watts 6.8E-18
Avg Receive Power L1 dBm North America -132				Range in Meters 58.28	Radiated Power dBm -72.3
Fre	ee Space loss with Isotropic Ante -69.36	nnas		Range in Kilometers 0.06	Transmitted Power (W) 29.5E-12
					Effective Radiated Power (W)

58.9E-12

Effective Radiated Power (dBW) -102.3