



GPS Networking, Model HNRRKIT GPS re-radiator signal strength @100 feet

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
35	-10	24.5	3	100	-143.59
GPS Carrier Frequency MHz					
1575					
Total System Gain					
52.5					
Range in Miles					
0.02					
Total Signal Power @ Range in Watts					
4.4E-18					
Range in Meters					
31.17					
Radiated Power dBm					
-77.5					
Range in Kilometers					
0.03					
Transmitted Power (W)					
8.9E-12					
Effective Radiated Power (W)					
17.8E-12					
Effective Radiated Power (dBW)					
-107.5					

Avg Receive Power L1 dBm North America
-130

Free Space loss with Isotropic Antennas
-66.09