



Your source for quality GNSS Networking Solutions and Design Services, Now!

250 Foot Cable Link Budget Calculation

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp + Splitter Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
30	-19.5	33	0	100	-152.59
GPS Carrier Frequency MHz		Total System Gain		Range in Miles	Total Signal Power @ Range in Watts
1575		43.5		0.02	550.4E-21
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-86.5
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-66.09				0.03	1.1E-12
					Effective Radiated Power (W)
					2.2E-12
					Effective Radiated Power (dBW)
					-116.5