

**Kansas City, Kansas
Link Budget**



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Link Budget Calculations

| Receive Ant Gain | Ant Cable Insertion Loss | Repeater Amp Gain | Repeater Ant Gain Best Case | Range in Feet | EIRP @ Range In dBm |
|---|--------------------------|-------------------|-----------------------------|---------------------|--|
| 30 | -10 | 30 | 3 | 100 | -143.09 |
| GPS Carrier Frequency MHz | | Total System Gain | | Range in Miles | Total Signal Power @ Range in Watts |
| 1575 | | 53 | | 0.02 | 4.9E-18 |
| Avg Receive Power L1 dBm North America | | | | Range in Meters | Radiated Power dBm |
| -130 | | | | 31.17 | -77 |
| Free Space loss with Isotropic Antennas | | | | Range in Kilometers | Transmitted Power (W) |
| -66.09 | | | | 0.03 | 10.0E-12 |
| | | | | | Effective Isotropic Radiated Power (W) |
| | | | | | 20.0E-12 |
| | | | | | Effective Radiated Power (dBW) |
| | | | | | -107 |



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