

**GPS BOOSTER STATION (RE-RADIATION SYSTEM) LINK**

Frequency = 1575.4 MHz

Wavelength = 0.190428 m

Range, re-radiator to wall = 2.7 m 9 ft

|                   |         |
|-------------------|---------|
| Roof Antenna Gain | 4.5 dBi |
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| Roof Antenna LNA Gain = | 53.0 dB |
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| Roof Antenna LNA to Re-radiator Antenna Cable Insertion Loss = | -7.5 dB |
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| Re-radiator Antenna Gain = | 1.0 dBi |
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| Booster Station Gain = | 51.0 dB |
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| Free Space Propagation Loss (Range + 30m) = | -66.7 dB |
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| Specified GPS Signal Strength = | -130.0 dBm/24 MHz |
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| Booster GPS Signal Strength = | -145.7 dBm/24 MHz |
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| Specified Maximum Signal Strength = | -140.0 dBm/24 MHz |
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| Margin = | 5.7 dB |
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