

GPS BOOSTER STATION (RE-RADIATION SYSTEM) LINK

Frequency = 1575.4 MHz

Wavelength = 0.190428 m

Range, re-radiator to wall = 4.9 m 16 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 =	-5.1 dB
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Re-radiator Antenna Gain =	1.0 dBi
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Booster Station Gain =	53.4 dB
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Free Space Propagation Loss (Range + 30m) =	-67.2 dB
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Specified GPS Signal Strength =	-130.0 dBm/24 MHz
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Booster GPS Signal Strength =	-143.8 dBm/24 MHz
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Specified Maximum Signal Strength =	-140.0 dBm/24 MHz
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Margin =	3.8 dB
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