

GPS BOOSTER STATION (RE-RADIATION SYSTEM) LINK

Frequency = 1575.4 MHz

Wavelength = 0.190428 m

Range, re-radiator to wall = 30.5 m 100 ft

Roof Antenna Gain 4.5 dBi

Roof Antenna LNA Gain = 55.0 dB

Roof Antenna LNA to Re-radiator Antenna Cable Insertion Loss = -13.6 dB

Re-radiator Antenna Gain = 1.0 dBi

Booster Station Gain = 46.9 dB

Free Space Propagation Loss (Range + 30m) = -72.0 dB

Specified GPS Signal Strength = -130.0 dBm/24 MHz

Booster GPS Signal Strength = -155.1 dBm/24 MHz

Specified Maximum Signal Strength = -140.0 dBm/24 MHz

Margin = 15.1 dB