

GPS BOOSTER STATION (RE-RADIATION SYSTEM) LINK

Frequency = 1575.4 MHz
Wavelength = 0.190428 m
Range, re-radiator to wall = 15.2 m 50 ft

Roof Antenna Gain	5.4 dBi
Roof Antenna LNA Gain =	33.0 dB
Roof Antenna LNA to Re-radiator Antenna Cable Insertion Loss =	-5.0 dB
Re-radiator LNA Gain =	15.0 dB
Re-radiator Antenna Gain =	5.0 dBi
Booster Station Gain =	53.4 dB
Free Space Propagation Loss (Range + 30m) =	-69.5 dB
Specified GPS Signal Strength =	-130.0 dBm/24 MHz
Booster GPS Signal Strength =	-146.1 dBm/24 MHz
Specified Maximum Signal Strength =	-140.0 dBm/24 MHz
Margin =	6.1 dB