

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