

GPS BOOSTER STATION (RE-RADIATION SYSTEM) LINK

Frequency = 1575.4 MHz
Wavelength = 0.190428 m
Range, re-radiator to wall = 0.4 m 1.25 ft

Roof Antenna Gain	3.5
Roof LNA Gain	36.0
Roof Antenna to Line Amplifier Cable Insertion Loss =	-8.8
Line Amplifier Gain =	26.0
Line amplifier to Re-radiator Antenna Cable Insertion Loss =	-0.1
Re-radiator Antenna Gain =	-2.3
Booster Station Gain =	54.3
Free Space Propagation Loss (Range + 30m) =	-66.0
Specified GPS Signal Strength =	-130.0
Booster GPS Signal Strength =	-141.7
Specified Maximum Signal Strength =	-140.0
Margin =	1.7

dBi

dB

dB

dB

dB

dBi

dB

dB

dBm/24 MHz

dBm/24 MHz

dBm/24 MHz

dB
