

FULL SYSTEM PATH STUDY  
LightSquared Site #2 Plus Ant Rad Ctr HT\_AMSL

Transmitter coordinates, N. Lat. 182604.5 W. Lng. 663615.1  
Receiver coordinates, N. Lat. 182040.1 W. Lng. 664510.1  
Transmitter Antenna Height= 169 Mtrs AMSL  
Receiver Antenna Height= 422 Mtrs AMSL

Path Length =18.6 km  
Azimuth =237.45 degrees  
Frequency = 1673 MHz

Obstruction loss = 0 dB  
Free Space loss =-122.33 dB  
Transmission line loss = dB  
Receiving line loss = dB  
Connector loss = 0 dB  
Other losses = 0 dB

Total losses = -122.33 dB

Transmitter output power = 0 Watts, 0 dBm  
Other gains = 0 dB

Total gains = 0 dB

Expected receiver signal =-122.33 dB  
Desired receiver signal (sensitivity) = 223872.11 microVolts, dBm  
Available fade margin =-122.33 dB

Minimum fade margin Recommended = 6.51 dB

