

Path Summary:

Transmitter coordinates:	41-00-52 N	092-24-30.70 W
Receiver coordinates:	41-01-29 N	092-28-10 W
Path Length & Azimuth:	5.249 km	282.58 degrees
Frequency:	950 MHz	

System Gain Summary:

Transmitter Output Power:	10 Watts	40 dBm
Transmitter Antenna Gain:		15.5 dBi
Receiver Antenna Gain:		15.5 dBi
Misc. Gain:		0 dB

Total System Gain:		71 dB

System Loss Summary:

Path Loss:		106.41 dB
Line Loss (Tx/Rx):	0.164 dB/0.123 dB	0.287 dB
Total Connector Loss:		1.5 dB
Misc. Loss:		0 dB

Total System Loss:		108.197 dB

Radiation Summary:

Transmitter Output Power:	10 Watts	40 dBm
Antenna Gain:		15.5 dBi
Transmission Line:		-0.164 dB
Connectors:		-1.5 dB
Miscellaneous:		0 dB

EIRP:		54.586 dBm

Link Budget Summary:

Total System Gain:		71 dB
Total System Loss:		108.197 dB
Expected receiver signal:		-37.197 dB
Desired receiver signal level (sensitivity):	70.0 uV	-70.098 dBm

Available fade margin:		32.901 dB
Minimum fade margin recommended:		1.142 dB