

## Telemetry Link Budget (Transfer Orbit and Emergency)

### Link Parameters

Frequency	(MHz)	4,198.5
Transmit Power	(dBW)	7.8
Line Losses	(dB)	4.3
Antenna Gain (EOC)	(dBi)	-4.0
EIRP	(dBW)	-0.5
Free Space Path Loss	(dB)	196.8
Polarization Loss	(dB)	0.2
Rain Fade	(dB)	0.3
RX E/S Pointing Loss	(dB)	0.5
Rx E/S G/T	(dB/K)	31.8
Downlink C/No	(dB)	62.1
C/No Required	(dB)	57.4
Demodulation Loss	(dB)	9.6
Eb/No	(dB)	15.7
Margin	(dB)	4.7