

## Telemetry Link Budget (Transfer Orbit and Emergency)

### Link Parameters

Frequency	(MHz)	4,199.0
Transmit Power	(dBW)	11.3
Line Losses	(dB)	4.3
Antenna Gain	(dBi)	-2.0
EIRP	(dBW)	5.0
Free Space Path Loss	(dB)	197.2
Atmospheric and Polarization Losses	(dB)	3.2
RX E/S Pointing Loss	(dB)	0.5
Rx E/S G/T	(dB/K)	33.3
Downlink C/N	(dB)	11.2
C/N Required	(dB)	9.0
Margin	(dB)	2.2