

Telemetry Link Budget (Transfer Orbit and Emergency)

Link Parameters

Frequency	(MHz)	4,199.5
Transmit Power	(dBW)	17.3
Line Losses	(dB)	4.3
Antenna Gain (EOC)	(dBi)	-4.0
EIRP	(dBW)	9.0
Free Space Path Loss	(dB)	197.2
Atmospheric and Polarization Losses	(dB)	3.1
Rain Fade	(dB)	1.5
RX E/S Pointing Loss	(dB)	0.5
Rx E/S G/T	(dB/K)	28.0
G/T degradation due to Rain	(dB)	1.6
Downlink C/No	(dB)	61.7
C/No Required	(dB)	53.1
Modulation and Implementation Losses	(dB)	5.3
Margin	(dB)	8.6