

Telemetry Link Budget (On Station)

Link Parameters

Frequency	(MHz)	20,198.5
Transmit Power	(dBW)	1.7
Line Losses	(dB)	5.7
Antenna Gain (-2 dB contour)	(dBi)	18.0
EIRP	(dBW)	14.0
Free Space Path Loss	(dB)	210.4
Polarization Loss	(dB)	0.8
Rain Fade	(dB)	7.0
RX E/S Pointing Loss	(dB)	0.5
Rx E/S G/T	(dB/K)	42.3
G/T degradation due to Rain	(dB)	2.6
Downlink C/No	(dB)	63.6
C/No Required	(dB)	57.4
Demodulation Loss (0.6 radians)	(dB)	9.6
Eb/No	(dB)	17.2
Faded Margin	(dB)	6.2