

Command Link Budget (Transfer Orbit and Emergency)

Link Parameters	High U/L	Low U/L
Frequency (MHz)	6,424.5	6,424.5
Uplink EIRP (dBW)	81.3	76.3
Rain Fade (dB)	0.4	0.4
Spreading Loss (dB/m ²)	162.9	162.9
Incident Flux Density (dBW/m ²)	-82.0	-87.0
Aperture Factor (dB-m ²)	-37.6	-37.6
Incident Isotropic Power (dBW)	-119.6	-124.6
Antenna Gain (EOC) (dBi)	-4.0	-4.0
Total Receive Losses (dB)	11.0	11.0
Receiver Input Power (dBm)	-104.6	-109.6
Receiver Threshold (dBm)	-112.0	-112.0
Spacecraft Margin (dB)	7.4	2.4