

## Command Link Budget (On Station; IOT Phase)

Link Parameters	Rain	Clear
Frequency (MHz)	29,999.5	29,999.5
Uplink EIRP (dBW)	84.9	70.0
Rain Fade (dB)	17.0	0.0
Spreading Loss (dB/m2)	162.9	162.9
Incident Flux Density (dBW/m2)	-95.0	-92.9
Aperture Factor (dB-m2)	-51.0	-51.0
Incident Isotropic Power (dBW)	-146.0	-143.9
Antenna Gain (-2dB contour) (dBi)	19.0	19.0
Total Receive Losses (dB)	14.0	14.0
Receiver Input Power (dBm)	-111.0	-108.9
Receiver Threshold (dBm)	-112.0	-112.0
Spacecraft Margin (dB)	1.0	3.1