

TELEMETRY LINK MARGIN

SPACE STATION to CURACAO TT&C CENTER	Spot Beam 51	Common Parameters	
SS Tx Power, dBW	-5.0	Freq, GHz	17.30
OBO	-3.0	Wavelength, in	0.68
Output Loss, dB	-2.0	Bandwidth,MHz	0.80
SS Tx Pwr, dBW	-10.0	Bandwidth,dB-Hz	59.03
SS Tx Pwr, W	0.10	Slant Range,kM	40,100
SS Peak Antenna Gain, dBi	47.7		
SS Tx ERP, dBW	37.7		
Pointing Loss, dB	-0.5		
Eirp, dBW	37.2		
Pwr Density, dBW/Hz	-69.0		
SFD, dBW/m ² ,	-140.2		
Space Loss, dB	-209.3		
Ptg Loss, dB	-0.5		
Rain & Atmos Atten, dB, 99.9%	-25.3		
Total Loss, dB	-235.1		
ES Dia, m	9.0		
ES Gain, dB	61.2		
ES Rx Temp, deg K	100.0		
G/T, peak, dB/K	41.2		
C/T, dB/K, Clear	-156.1		
Bandwidth,MHz, dB	-1.0		
DL C/I, dB	30.0		
DL CNR, dB	13.4		
DL C/N+I, dB	13.3		

TELEMETRY LINK MARGIN

SPACE STATION to LA TT&C CENTER	GSO CONUS+	Common Parameters	
SS Tx Power, dBW	-8.0	Freq, GHz	17.30
OBO	-3.0	Wavelength, in	0.68
Output Loss, dB	-2.0	Bandwidth,MHz	0.80
SS Tx Pwr, dBW	-13.0	Bandwidth,dB-Hz	59.03
SS Tx Pwr, W	0.05	Slant Range,kM	40,100
SS Peak Antenna Gain, dBi	29.0		
SS Tx ERP, dBW	16.0		
Pointing Loss, dB	-0.5		
Eirp, dBW	15.5		
Pwr Density, dBW/Hz	-72.0		
SFD, dBW/m ² ,	-140.0		
Space Loss, dB	-209.3		
Ptg Loss, dB	-0.5		
Rain & Atmos Atten, dB, 99.99%	-3.4		
Total Loss, dB	-213.2		
ES Dia, m	9.0		
ES Gain, dB	61.2		
ES Rx Temp, deg K	100.0		
G/T, peak, dB/K	41.2		
C/T, dB/K, Clear	-155.9		
Bandwidth,MHz, dB	-1.0		
DL C/I, dB	30.0		
DL CNR, dB	13.6		
DL C/N+I, dB	13.5		