

TELEMETRY LINK MARGIN

SPACE STATION to CURACAO TT&C CENTER	CONUS+ Beam	Common Parameters	
SS Tx Power, dBW	16.0	Freq, GHz	17.30
OBO	-3.0	Wavelength, in	0.68
Output Loss, dB	-2.0	Bandwidth,MHz	0.80
SS Tx Pwr, dBW	11.0	Bandwidth,dB-Hz	59.03
SS Tx Pwr, W	12.59	Slant Range,kM	40,100
SS Peak Antenna Gain, dBi	16.4		
SS Tx ERP, dBW	27.4		
Pointing Loss, dB	-0.5		
EIRP, dBW	26.9		
Pwr Density, dBW/Hz	-48.0		
Spreading Loss, dB	-163.05		
PFD, dBW/m ² /MHz,	-136.5		
Space Loss, dB	-209.3		
Ptg Loss, dB	-0.5		
Rain & Atmos Atten, dB, 99.7%	-14.7		
Total Loss, dB	-224.5		
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	-155.8		
Bandwidth,MHz, dB	-1.0		
DL C/I, dB	30.0		
DL CNR, dB	13.7		
DL C/N+I, dB	13.6		

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	28.7		
SS Tx EIRP, dBW	15.7		
Pointing Loss, dB	-0.5		
Eirp, dBW	15.2		
Pwr Density, dBW/Hz	-72.0		
Spreading Loss, dB	-163.05		
PFD, dBW/m^2/MHz,	-148.2		
Space Loss, dB	-209.3		
Ptg Loss, dB	-0.5		
Rain & Atmos Atten, dB, 99.9%	-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	-156.2		
Bandwidth,MHz, dB	-1.0		
DL C/I, dB	30.0		
DL CNR, dB	13.3		
DL C/N+I, dB	13.2		