

Link Parameters	Units	17M9G7W
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Carrier bandwidth	kHz	17900.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	67.5
Earth station diameter	m	9.0
Earth station gain	dBi	53.5
Uplink input power per carrier	dBW	14.0
Atmospheric loss	dB	0.2
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	-2.0
C/N thermal uplink	dB	21.4
C/I XPOL, ACI, IM, ASI	dB	18.9
C/(N+I) uplink	dB	17.0
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	33.5
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	9.0
Earth station gain	dBi	49.7
Noise temperature	K	150.0
Earth station G/T	dB/K	27.9
C/N thermal downlink	dB	21.2
C/I XPOL, ACI, IM, ASI	dB	21.5
C/(N+I) downlink	dB	16.9
Overall:		
C/(N+I) overall	dB	13.9
C/(N+I) required	dB	12.4
System Margin	dB	1.5