

Link Parameters	Units	1M64G7W
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Carrier bandwidth	kHz	1640.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	56.8
Earth station diameter	m	7.0
Earth station gain	dB _i	51.3
Uplink input power per carrier	dBW	5.5
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	21.0
C/I XPOL, ACI, IM, ASI	dB	18.2
C/(N+I) uplink	dB	16.4
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	23.2
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	4.5
Earth station gain	dB _i	43.7
Noise temperature	K	105.0
Earth station G/T	dB/K	23.5
C/N thermal downlink	dB	16.8
C/I XPOL, ACI, IM, ASI	dB	17.4
C/(N+I) downlink	dB	12.7
Overall:		
C/(N+I) overall	dB	11.2
C/(N+I) required	dB	8.5
System Margin	dB	2.7