

Link Parameters	Units	1M56G7W
Uplink frequency	GHz	6.20
Downlink frequency	GHz	4.00
Occupied bandwidth	kHz	1556.5
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	55.3
Earth station diameter	m	4.5
Earth station gain	dBi	47.5
Uplink input power per carrier	dBW	7.8
Atmospheric loss	dB	0.2
Free space path loss	dB	200.0
G/T satellite (-3dB contour)	dB/K	4.8
C/N thermal uplink	dB	26.6
C/I XPOL, ACI, IM, ASI	dB	17.3
C/(N+I) uplink	dB	16.8
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	23.1
Atmospheric loss	dB	0.1
Free space path loss	dB	196.2
Earth station diameter	m	7.0
Earth station gain	dBi	47.5
Noise temperature	K	80.0
Earth station G/T	dB/K	28.5
C/N thermal downlink	dB	21.9
C/I XPOL, ACI, IM, ASI	dB	18.0
C/(N+I) downlink	dB	15.0
Overall:		
C/(N+I) overall	dB	12.8
C/(N+I) required	dB	8.2
System Margin	dB	4.6