

Link Parameters	Units	32M4G7W
Uplink frequency	GHz	14.13
Downlink frequency	GHz	11.33
User data rate	kbit/s	1024
Modulation		QPSK
Total coding rate		0.325
Carrier bandwidth	kHz	32400
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	52.4
Earth station diameter	m	0.6
Earth station gain	dBi	37.1
Uplink input power per carrier	dBW	15.3
Uplink input power density	dBW/Hz	-59.8
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite (-3 dB contour)	dB/K	2.2
C/N thermal uplink	dB	0.7
C/I XPOL, ACI, ASI	dB	-0.6
C/(N+I) uplink	dB	-3.0
Downlink:		
Satellite e.i.r.p. per carrier (-3 dB contour)	dBW	27.7
Atmospheric loss	dB	0.1
Free space path loss	dB	205.2
Earth station diameter	m	6.1
Earth station gain	dBi	55.3
Noise temperature	K	150.0
Earth station G/T	dB/K	33.6
C/N thermal downlink	dB	9.5
C/I XPOL, ACI, IM, ASI	dB	6.0
C/(N+I) downlink	dB	4.4
Overall:		
C/(N+I) overall	dB	-3.7
C/(N+I) required	dB	-10.8
Margin	dB	7.1