

Link Parameters	Units	32M4G7W
Uplink frequency	GHz	14.38
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	52.6
Earth station diameter	m	0.6
Earth station gain	dB _i	37.3
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	207.3
G/T satellite (-3 dB contour)	dB/K	2.4
C/N thermal uplink	dB	1.0
C/I XPOL, ACI, ASI	dB	-0.5
C/(N+I) uplink	dB	-2.9
Downlink:		
Satellite e.i.r.p. per carrier (-3 dB contour)	dBW	27.9
Atmospheric loss	dB	0.1
Free space path loss	dB	205.2
Earth station diameter	m	6.1
Earth station gain	dB _i	55.3
Noise temperature	K	150.0
Earth station G/T	dB/K	33.6
C/N thermal downlink	dB	9.6
C/I XPOL, ACI, IM, ASI	dB	6.2
C/(N+I) downlink	dB	4.6
Overall:		
C/(N+I) overall	dB	-3.6
C/(N+I) required	dB	-10.8
Margin	dB	7.2