

Link Parameters	Units	6M33G7W
Uplink frequency	GHz	6.88
Downlink frequency	GHz	4.65
User data rate	kbit/s	8448
Modulation		QPSK
Total coding rate		0.801
Carrier bandwidth	kHz	6330
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	65.6
Earth station diameter	m	4.5
Earth station gain	dBi	48.4
Uplink input power per carrier	dBW	17.2
Uplink input power density	dBW/Hz	-50.8
Atmospheric loss	dB	0.1
Free space path loss	dB	200.9
G/T satellite (-3 dB contour)	dB/K	-5.0
C/N thermal uplink	dB	20.2
C/I XPOL, ACI, ASI	dB	12.6
C/(N+I) uplink	dB	11.9
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	29.0
Atmospheric loss	dB	0.1
Free space path loss	dB	197.5
Earth station diameter	m	6.1
Earth station gain	dBi	47.6
Noise temperature	K	100.0
Earth station G/T	dB/K	27.6
C/N thermal downlink	dB	19.6
C/I XPOL, ACI, IM, ASI	dB	13.9
C/(N+I) downlink	dB	10.7
Overall:		
C/(N+I) overall	dB	8.2
C/(N+I) required	dB	5.8
Margin	dB	2.4