

Link Parameters	Units	6M33G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
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	67.1
Earth station diameter	m	2.4
Earth station gain	dBi	49.2
Uplink input power per carrier	dBW	17.9
Uplink input power density	dBW/Hz	-50.2
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	24.6
C/I XPOL, ACI, ASI	dB	19.8
C/(N+I) uplink	dB	18.5
Downlink:		
Satellite e.i.r.p. per carrier	dBW	39.5
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	1.8
Earth station gain	dBi	45.2
Noise temperature	K	120.0
Earth station G/T	dB/K	24.4
C/N thermal downlink	dB	18.7
C/I XPOL, ACI, IM, ASI	dB	12.5
C/(N+I) downlink	dB	9.2
Overall:		
C/(N+I) overall	dB	8.7
C/(N+I) required	dB	5.8
Margin	dB	2.9