

Link Parameters	Units	1M34G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
User data rate	kbit/s	1544
Modulation		QPSK
Total coding rate		0.691
Carrier bandwidth	kHz	1340
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	58.0
Earth station diameter	m	1.8
Earth station gain	dBi	46.7
Uplink input power per carrier	dBW	11.3
Uplink input power density	dBW/Hz	-50.0
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	22.2
C/I XPOL, ACI, ASI	dB	18.0
C/(N+I) uplink	dB	16.6
Downlink:		
Satellite e.i.r.p. per carrier	dBW	32.4
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	2.4
Earth station gain	dBi	47.7
Noise temperature	K	120.0
Earth station G/T	dB/K	26.9
C/N thermal downlink	dB	20.8
C/I XPOL, ACI, IM, ASI	dB	13.5
C/(N+I) downlink	dB	10.7
Overall:		
C/(N+I) overall	dB	9.7
C/(N+I) required	dB	5.7
Margin	dB	4.0