

<b>General</b>	Unit	
User terminal type	-	AFC
Emission Designator	-	100KN0N
Data rate (kbps)	(kbps)	n/a
Coding rate	-	n/a
Modulation	-	n/a
Carrier bandwidth	(kHz)	1
Allocated bandwidth	(kHz)	100
<b>Uplink</b>		
Frequency	(GHz)	6.5
Earth Station EIRP	(dBW)	63.0
Antenna diameter	m	19.0
Antenna tx gain	dBi	59.6
Uplink power	(dBW)	3.4
Uplink p.s.d. avgd. in 4 kHz	(dBW/4kHz)	3.4
Path loss	(dB)	200.9
Mean Atmospheric loss	(dB)	0.4
Satellite G/T	(dB/K)	-10.4
Boltzmann Constant	(dBW/K/Hz)	-228.6
Up-path C/No	(dBHz)	79.9
<b>Downlink</b>		
Frequency	(GHz)	1.5
Transponder Gain (EOC)	(dB)	153.0
Gain difference between eob and cob	(dB)	4.0
Satellite Gain uncertainty & other adjustments	(dB)	-0.7
Satellite EIRP (beam peak)	(dBW)	18.0
Max pfd @ earth surface	(dBW/m <sup>2</sup> /4kHz)	-144.1
Satellite EIRP density (BP) avg. in 4 kHz	(dBW/4kHz)	18.0
Beam Peak to Service Area	(dB)	4.0
Satellite EIRP	(dBW)	14.0
Path loss	(dB)	188.4
Mean Atmospheric loss	(dB)	0.1
User terminal G/T	(dB/K)	20.7
Boltzmann Constant	(dBW/K/Hz)	-228.6
User terminal Pointing loss	(dB)	0
Down-path C/No	(dBHz)	74.8
<b>Total</b>		
<i>NPR</i>	<i>dB</i>	<i>20.0</i>
<i>IMo, Sat Intermod.</i>	<i>(dBW/Hz)</i>	<i>-36.5</i>
Mean satellite C/IMo	(dBHz)	50.5
Co-Channel Interference	(dBHz)	999.0
Other system interference allocation	(dB)	1.0
Mean Overall C/No	(dBHz)	49.4
Mean Overall C/N	(dB)	19.4
<b>Margin</b>		
C/N objective	(dB)	15.0
C/N margin	(dB)	4.4