

Parameter	Units	Nominal	Worst case
Slant range	km	40586	40586
Frequency	MHz	6340	6340
TC rate	bps	1000	1000
Ground Station EIRP	dBW	75	<b>89</b>
Antenna size	m	19	19
Antenna gain (tx)	dBi	59.6	59.6
Transmit power	dBW	15.4	29.4
Path loss	dB/m <sup>2</sup>	-163.2	-163.2
Athmospheric losses	dB	-0.5	-0.5
Received PFD	dBW/m <sup>2</sup>	-88.7	-74.7
Lambda <sup>2</sup> /4pi	dB(m <sup>2</sup> )	-37.5	-37.5
Antenna coverage	degree	+/- 38	+/- 90
Antenna Gain	dBi	6	-12
On-board losses	dBi	-9.9	-9.9
Power at Rx input	dBW	-130.1	-134.1
Rx Treshold (TC only mode)	dBW	-142	-142
TC Margin (TC only mode)	dB	11.9	7.9
Rx Treshold (TC plus RNG mode)	dBW	-140	-140
TC margin (TC plus RNG mode)	dB	9.9	5.9