

ECHOSTAR-8 Command Link Budget		
Link Parameters		
Frequency	(MHz)	14003
Tx E/S Antenna Gain	(dBi)	63.5
Power to Tx E/S Antenna	(dBW)	16.7
Tx E/S EIRP	(dBW)	80.2
Incident Flux Density	(dBW/m ²)	-82.6
Aperture Factor	(dB-m ²)	-44.4
Incident Isotropic Power	(dBW)	-127.0
Antenna Gain (EOC)	(dBi)	-4.0
Total Receive Losses	(dB)	6.8
Receiver Input Power	(dBW)	-137.8
Receiver Threshold	(dBW)	-142.0
Spacecraft Margin	(dB)	4.2