

ECHOSTAR-8 Command Link Budget		
Link Parameters		
Frequency	(MHz)	17799
Tx E/S Antenna Gain	(dBi)	65.5
Power to Tx E/S Antenna	(dBW)	15.2
Tx E/S EIRP	(dBW)	80.7
Incident Flux Density	(dBW/m ²)	-82.6
Aperture Factor	(dB-m ²)	-46.5
Incident Isotropic Power	(dBW)	-129.1
Antenna Gain (EOC)	(dBi)	0.0
Total Receive Losses	(dB)	4.6
Receiver Input Power	(dBW)	-133.7
Receiver Threshold	(dBW)	-142.6
Spacecraft Margin	(dB)	8.9