

14GHz Telecommand Link Budget

Link Parameters		Transfer Orbit
Frequency	(MHz)	14,002.5
Tx E/S Antenna Gain	(dBi)	65.8
Power to Tx E/S Antenna	(dBW)	9.2
Tx E/S EIRP	(dBW)	75.0
Incident Flux Density	(dBW/m ²)	-87.7
Aperture Factor	(dB-m ²)	-44.4
Incident Isotropic Power	(dBW)	-132.1
Antenna Gain	(dBi)	-4.0
Total Receive Losses	(dB)	4.5
Receiver Input Power	(dBW)	-140.6
Receiver Threshold	(dBW)	-142.0
Spacecraft Margin	(dB)	1.4