

TABLE 5: Link Budgets - Command carrier

Tx ES dia (typical), m	8.4
Tx ES gain, dBi	60.24
Tx ES antenna input power, dBW	10.00
Tx ES EIRP, dBW	70.24
Link loss, dB	207.50
Satellite G/T, dB/K	6.00
Command carrier bandwidth, MHz	1.00
Tx ES antenna input power density, dBW	-50.00
Carrier-to-Noise Ratio, dB	37.34
Required CNR, dB	10.00
Margin	27.34

TABLE 6: Link Budgets - Telemetry carrier

EIRP, dBW	19.00
Carrier bandwidth, MHz	0.50
EIRP density, dBW/4kHz	-1.97
Tx ES dia (typical), m	5.70
Rx ES antenna gain, dB	55.01
Rx ES G/T, dB/K	34.60
Rain fade, dB	8.00
CNR, dB	10.21
CNR (required), dB	9.00
Margin, dB	1.21