

Command carrier link budget

UL Antenna flange power	dBW	25.0
UL Antenna flange power density	dBW/4KHz	1.0
TxES antenna gain	dB	64.2
UL EIRP	dBW	89.2
Sat. Rec antenna gain (Global beam)	dBW	4.3
Sat. reciver system temp	K	790.0
Satellite G/T	dB/K	-24.7
Carrier BW	KHz	1000.0
Rain fade margin (beyond UPC range)	dB	10.0
Path Loss	dB	210.0
CNR	dB	13.1
CNR(required)	dB	10.0
Margin	dB	3.1

Telemetry carrier link budget

EIRP	dBW	20.0
EIRP density	dBW/4KHz	-2.8
RxES antenna gain	dB	59.5
RxES G/T	dB/K	39.5
Carrier BW	KHz	750.0
Rain fade	dB	12.0
Path loss	dB	206.2
CNR	dB	11.1
CNR(required)	dB	9.0
Margin	dB	2.1