

**Table D-2 GMSA Forward Link Budget – PC Card**

CDMA Carrier – Terminal G/T=-26 dB/K

Parameter		Units	
Allocated Satellite EIRP	dBW	78.1	
Number of satellites		2	
Number of beams- Primary Coverage Area		170	
Carrier BW	MHz	1.25	
Downlink L-band C/N			
EIRP per carrier	dBW	58.8	
Beam roll off at EoC	dB	1.14	
EIRP per carrier at EoC	dBW	57.7	
Free space propagation loss	dB	-187.7	
Average blockage margin	dB	-5.0	
MT G/T	dB/K	-26.0	
Boltzmann's constant	dBW/Hz.K	-228.6	
Equivalent Noise Bandwidth	dBHz	60.9	
C/N	dB	6.67	
Downlink L-band Inter-beam Interference			
C/I	dB	1.04	
Up-link Ku-band C/N (Thermal)			
Earth station EIRP / 1.25MHz carrier	dBW	62.0	
Free space propagation	dB	-206.9	
Atmospheric loss 99.5% Availability	dB	-8.7	
Satellite Ku band G/T	dB/K	11.5	
(C/N) up link /1.25MHz carrier	dB Hz	25.6	
Up-link Ku-band C/I (Interference)			
C/I (Adjacent Channel)	dB	27.0	
C/I (Co-channel Interference)	dB	19.0	
C/I (Crosspolarization)	dB	23.0	
C/I (NPR Interference)	dB	20.0	
C/I (rain Depolarization)	dB	17.5	
Interference from calibration signal	dB	21.0	
C/I (NPR Interference)	dB	15.0	
C/I Up / 1.25MHz Carrier	dB	10.6	
Effective C/(I+N)	dB	-0.4	
Aggregate Data Rate per Carrier	kbps	614.4	