

Antenna	(m)	0.74	0.74
Scenario		Clear Sky	Rain
Downlink Bandwidth	(MHz)	500	500
Emission Code		500MG7W	500MG7W
EIRP (Beam peak)	(dBW)	65	70.9
EIRP (Edge of coverage)	(dBW)	64.3	70.2
ATM Loss	(dB)	0.8	0.8
FSL	(dB)	210	210
Rain Fade		0	7.9
E/S antenna diameter	(m)	0.74	0.74
E/S G	(dB)	42.1	42.1
E/S T	(°K)	225	455
E/S G/T	(dB/K)	18.6	15.5
C/N thermal dn	(dB)	13.7	8.6
C/I INTRASYSTEM dn	(dB)	15.6	15.6
C/I INTERSYSTEM dn	(dB)	13.0	13.0
C/(N+I) Total	(dB)	9.2	6.7
Worst case PFD across service area	(dBW/(m <sup>2</sup> MHz))	-124.2	-118.3
FCC Limit (25.138(a)(6))	(dBW/(m <sup>2</sup> MHz))	-118.0	-118.0
Compliance Margin	(dB)	6.2	0.3