

WildBlue C-Band TC Link Budget

Link Parameters		
Tx E/S Range to Satellite	(km)	38,000
Carrier Frequency	(MHz)	5,856.5
Tx E/S EIRP	(dBW)	77.4
Atmospheric and Other Losses	(dB)	2.7
Free Space Loss	(dB)	199.4
PFD at Satellite	(dBW/m ²)	-87.9
Satellite Antenna Gain towards Tx E/S	(dB/K)	-4.0
Rx Signal Power at Antenna	(dBW)	-128.7
Signal path losses	(dB)	8.0
Rx Signal Power at Command Receiver	(dBW)	-136.7
Required Command Rx Input Power	(dBW)	-137.2
Margin	(dB)	0.5