

WildBlue Ka-Band TC Link Budget

Link Parameters		
Tx E/S Range to Satellite	(km)	38,000
Carrier Frequency	(MHz)	29,999
Tx E/S EIRP	(dBW)	53.7
Atmospheric and Other Losses	(dB)	5.0
Free Space Loss	(dB)	213.6
PFD at Satellite	(dBW/m ²)	-113.9
Satellite Antenna Gain towards Tx E/S	(dB/K)	40.0
Rx Signal Power	(dBW)	-124.9
Required Command Rx Input Power	(dBW)	-137.2
Margin	(dB)	12.3