

SATLINKTOOL MAIN RESULTS

This document shows the main results of the link budget performed by SatLinkTool. The Service Parameters, the Uplink and Downlink results, the overall link results, and a comparison with the system accomplished the system requirements.

SERVICE

Modulation Code rate Carriers per transponder Tx bit rate: Rc (bit/s)

OVERAL RESULTS

(C/N)U	(C/N)D	(C/N)IM	(C/N)I	Avaiable(C/N)T	Required(C/N)T
24,19	23,14	Inf	50,00	20,62	1,65

Extra Margin	Needed (C/N)T	(C/No)T	IBO	OBO	Required Eb/No
18,97	0,00	95,72	0,00	0,00	2,75

DOWNLINK

Weather conditions

(EIRP)SL (dBW)	PRX(W)	(G/T)ES (dB/K)	(C/No)D (dBHz)
54,69	1,91E-11	32,64	98,25

UPLINK

Weather conditions

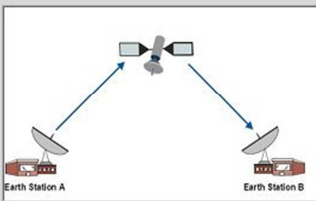
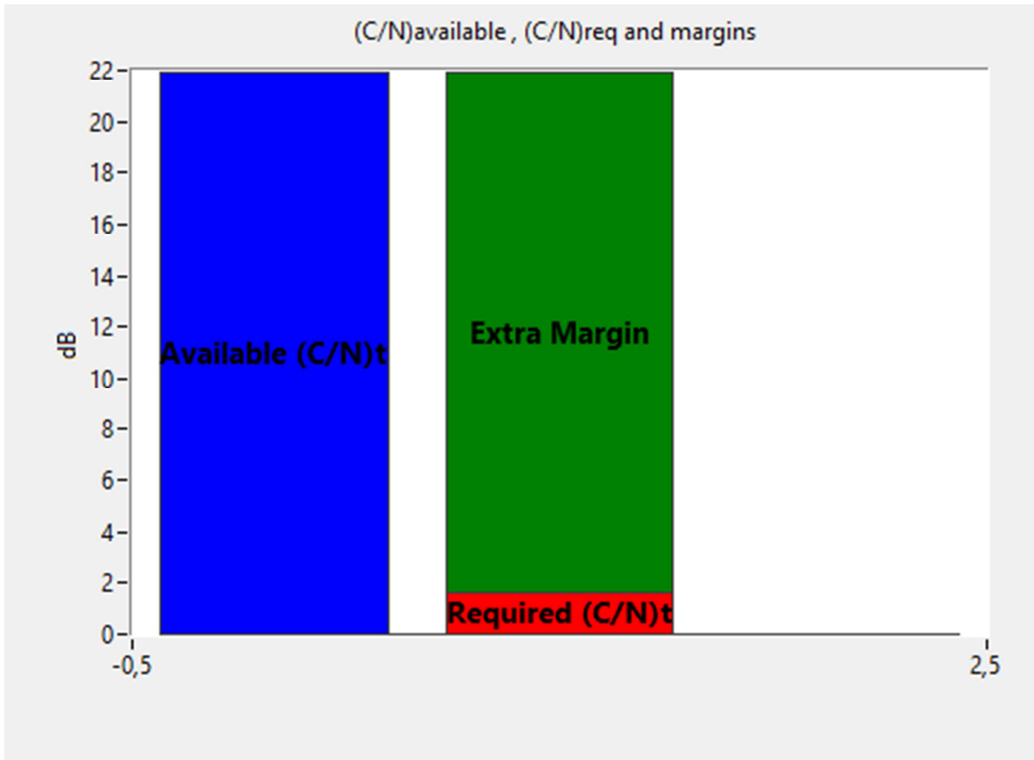
(EIRP)ES (dBW)	PRX(W)	(G/T)SL (dB/K)	(C/No)U (dBHz)
71,79	6,78E-11	6,60	99,29

DOES THE SYSTEM ACHIEVES REQUIRED (C/N)T?

Available >= Required?



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Enter the carrier power-to-interference power ratio (C/N)_I (in db) of your system:

Summary of the final Link Budget	
Carrier to power noise spectral density (dB/Hz)	Carrier power-to-noise power ratio (dB)
(C/No) _U (dB/Hz) 99,2922	(C/N) _U (dB) 24,1867
(C/No) _D (dB/Hz) 98,2464	(C/N) _D (dB) 23,141
(C/No) _{IM} (dB/Hz) Inf	(C/N) _{IM} (dB) Inf
(C/No) _I (dB/Hz) 125,105	(C/N) _I (dB) 50
(C/No)_T (dB/Hz) 95,7226	(C/N)_T (dB) 20,6172

Specifications achieved?	
Required	Available
Required (C/N) _T (dB) <input type="text" value="1,65"/>	Available (C/No) _T (dB) <input type="text" value="20,6172"/>
Available > = Required? 	
In service requirements you have selected a margin (dB): <input type="text" value="2"/>	
The extra margin (dB) of this system is: <input type="text" value="18,967"/>	
(C/N) _T needed to achieve the required (C/N) _T (dB): <input type="text" value="0"/>	
<input type="button" value="Calculate"/>	
<input type="button" value="See Graphics (C/N)T"/>	