

Link	L2/Earth		L2/Moon	
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Emitter	Emitter	L2		Moon	
	Tx Power	27,0	39	27,0	27,0
	Tx circuit loss	-1,0	0	-1,0	-1
	Tx antenna gain	36,4	89	40,6	3,03E+01
	Tx pointing loss	-3,0	0	-1,0	-1
	<b>Total</b>	<b>59,4</b>	<b>128,0</b>	<b>65,6</b>	<b>55,3</b>

Path	Space loss	-222,6	-222,6	-207,1	-207,1
	Athmospheric loss	-1,0	-1,0	0,0	0,0
	Polarization loss	-1,0	-1,0	-1,0	-1,0
	<b>Total</b>	<b>-224,6</b>	<b>-224,6</b>	<b>-208,1</b>	<b>-208,1</b>

Receiver	Rx pointing loss	0,0	-3	-1,0	-1
	Rx antenna gain	50,8	3,64E+01	40,6	40,6
	Rx circuit loss	0,0	-1	-1,0	-1
	<b>Total</b>	<b>50,8</b>	<b>32,4</b>	<b>38,6</b>	<b>38,6</b>

SNR	Boltzmann	228,6	228,6	228,6	228,6
	Thermal noise	-24,6	-24,6	-26,0	-26,0
	Data rate	-69,0	-69,0	-80,0	-80,0
	E/N	-4,4	-4,4	-4,4	-4,4
	<b>total</b>	<b>130,5</b>	<b>130,5</b>	<b>118,2</b>	<b>118,2</b>

<b>margin</b>	<b>16,1</b>	<b>66,4</b>	<b>14,2</b>	<b>3,9</b>
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