

| Link | L2/Earth | | L2/Moon | |
|------|----------|--|---------|--|
|------|----------|--|---------|--|

| Emitter | Emitter | L2 Earth | | L2 Moon | |
|---------|------------------|-------------|--------------|-------------|-------------|
| | Tx Power | 21,0 | 29 | 27,0 | 29 |
| | Tx circuit loss | -1,0 | 0 | -1,0 | -1 |
| | Tx antenna gain | 44,7 | 79 | 40,5 | 40,8 |
| | Tx pointing loss | -3,0 | 0 | -1,0 | -1 |
| | Total | 61,7 | 108,0 | 65,5 | 67,8 |

| Path | Space loss | -234,3 | -234,3 | -218,8 | -218,8 |
|------|-------------------|---------------|---------------|---------------|---------------|
| | Athmospheric loss | -1,0 | -1,0 | 0,0 | 0,0 |
| | Polarization loss | -1,0 | -1,0 | -1,0 | -1,0 |
| | Total | -236,3 | -236,3 | -219,8 | -219,8 |
| | | | | | |

| Receiver | Rx pointing loss | 0,0 | -3 | -1,0 | -1 |
|----------|------------------|-------------|-------------|-------------|-------------|
| | Rx antenna gain | 65,7 | 44,7 | 40,8 | 40,5 |
| | Rx circuit loss | 0,0 | -1 | -1,0 | -1 |
| | Total | 65,7 | 40,7 | 38,8 | 38,5 |
| | | | | | |

| SNR | Boltzmann | 228,6 | 228,6 | 228,6 | 228,6 |
|-----|---------------|--------------|--------------|--------------|--------------|
| | Thermal noise | -24,6 | -24,6 | -24,8 | -24,8 |
| | Data rate | -80,0 | -80,0 | -80,0 | -80,0 |
| | E/N | -1,5 | -1,5 | -1,5 | -1,5 |
| | total | 122,5 | 122,5 | 122,3 | 122,3 |
| | | | | | |

| | | | | |
|---------------|-------------|-------------|------------|------------|
| margin | 13,5 | 34,9 | 6,8 | 8,8 |
|---------------|-------------|-------------|------------|------------|