

| Subscriber Down-link budgets | | Block1 L-band Bursts | | | | | |
|--|---------------|----------------------|--------|-------------|--------|-------------|-----------|
| Updated demod. Thresholds | | BLOCK1 | | | | | |
| Subscriber Equipment type | | B1_9505 | B1_SBD | B1_Pager | B1_LBT | B1_OPP | B1_9505 |
| Type of Burst | | Block1 | Block1 | Block1_Pagi | Block1 | Block1_OPP | Common_RA |
| Mod Cod | | Block1 | Block1 | Block1 | Block1 | Block1 | Common |
| Symbol rate | ksps | 25 | 25 | 25 | 25 | 25 | 25 |
| Transmitted information data rate per burst (at phy level) | kbits / burst | 3,5 | 3,5 | 9,6 | 3,5 | 3,5 | 9,6 |
| Link Budget Service Label | | B1_voice | B1_SBD | B1_Page | B1_CSD | B1_OPP_down | Common_RA |
| Required Link fade Margin | dB | 7,6 | 8,6 | 21,9 | 7,6 | 6,5 | 13,6 |
| Target BER | | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 | 2E-02 |
| Satellite isoflux EIRP per burst | dBW | 21,1 | 20,9 | 32,5 | 21,2 | 10,7 | 29,5 |
| Free space loss | dB | -154,5 | -154,5 | -154,5 | -154,5 | -154,5 | -154,5 |
| Propagation loss (line of sight) | dB | -0,33 | -0,33 | -0,33 | -0,33 | -0,33 | -0,33 |
| Receive Power Flux Density | dBW/m2 | -108,1 | -108,3 | -96,7 | -108,0 | -118,5 | -99,7 |
| Faded Receive Power Flux Density | dBW/m2 | -116,4 | -117,4 | -119,4 | -116,3 | -125,5 | -117,1 |
| SE G/T | dB/K | -32,0 | -31,0 | -30,2 | -30,2 | -21,0 | -32,0 |
| Receiver Signal Strength (LOS) | dBWi | -133,7 | -133,9 | -122,4 | -133,6 | -144,1 | -125,3 |
| C/No | dBHz | 62,9 | 63,7 | 76,0 | 64,8 | 63,5 | 71,3 |
| Es/No | dB | 18,9 | 19,7 | 32,0 | 20,8 | 19,5 | 27,3 |
| Required Es/(No+Io) | (dB) | 9,2 | 9,2 | 9,2 | 9,2 | 9,2 | 9,2 |
| Reference C/I for reference RSS | dB | 15,0 | 15,0 | 15,0 | 15,0 | 15,0 | 15,0 |
| Es/Io for reference RSS | dB | 17,2 | 17,2 | 17,2 | 17,2 | 17,2 | 17,2 |
| Reference Min RSS @threshold | dBWi | -142,7 | -143,7 | -144,5 | -144,5 | -153,7 | -142,7 |
| Reference Min PFD @threshold | dBW/m2 | -117,0 | -118,0 | -118,8 | -118,8 | -128,0 | -117,0 |
| Overall interferences (C/I = Es/Io) | dB | 15,0 | 15,0 | 23,0 | 12,0 | 12,0 | 18,0 |
| Required Es/(No) | | 10,5 | 10,5 | 9,4 | 12,4 | 12,4 | 9,8 |
| Required RSS @threshold | dBWi | -142,1 | -143,1 | -145,0 | -142,0 | -151,2 | -142,8 |
| Fade margin including statistical benefit | dB | 8,4 | 9,2 | 22,7 | 8,4 | 7,1 | 17,5 |