|  |  |  |  |
| --- | --- | --- | --- |
| KAZ - Kazakhstan | | | |
| **Centralizing office** | **Postal address** | **Telephone, Telefax, Electronic-mail** | **Remarks** |
|  |  |  |  |
| Republican Centre of Space Communication | 34, Dzhangildin Street 010000 Nur-Sultan | TF : +7 7172 326478 FAX : +7 7172 326478 EMAIL : info@rcsc.kz |  |
|  |  |  |  |

Stations in the Space radiocommunication services

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| --- | --- | --- | --- |
| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** | |
|  |  |  |  |
| **GCC Akkol** | 34, Dzhangildin Street 010000 Nur-Sultan Kazakhstan | TF : +7 7163 860040 FAX : +7 7163 860041 EMAIL : oms\_cum@rcsc.kz | |

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| --- |
| **1. Geographical coordinates** |
| |  | | --- | | 52°00'11 N | | 070°54'03 E | |
| **2. Hours of service** |
| |  | | --- | | 0300-1230 h from Monday to Friday. | |
| **3. Information on antennas in use** |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | Antenna type: | Cassegrain antenna of | |  | 9 meters in diameter | | Antenna gain (dBi): | 57.6 - 59 | | Noise Temperature: | at an elevation angle of 5°: | 86° K | |  | at an elevation angle of 10°: | 72° K | |  | at an elevation angle of 20°: | 63° K | |  | at an elevation angle of 40°: | 60° K | | |
| **4. Range of azimuth and elevation angles** |
| |  | | --- | | Azimuth: ± 60°, elevation angle: 5°- 90° | |
| **5. Maximum attainable accuracy in determining orbital positions of space stations** |
| |  | | --- | | No information notified. | |
| **6. Information on system polarization** |
| |  | | --- | | Polarization: LX, LY | | Cross-polarization: dB > 35 | |
| **7. System noise temperature** |
| |  | | --- | | 132° K at an elevation angle of 20°. | |
| **8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range** |
| |  | | --- | | 10.950 GHz - 12.750 GHz: accuracy of frequency measurement is ± 1% of the carrier's bandwidth at C/N > 10 dB. | |
| **9. Ranges of frequencies in which field strength or power flux-density measurements can be performed** |
| |  | | --- | | 10.950 GHz - 12.750 GHz | |
| **10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement** |
| |  | | --- | | PFDmin = -134 dBW/m2 at C/N = 15 dB for non-modulated carrier BW = 4 kHz | | PFDmax = -88 dBW/m2 | | Measurement accuracy = 0.693 dB | |
| **11. Information available for bandwidth measurements** |
| |  | | --- | | Minimum measuring band is 100 Hz. | |
| **12. Information available for spectrum occupancy measurements** |
| |  | | --- | | Minimum measuring band is 100 Hz. The results of measurements are in % or in Hz. | |
| **13. Information available for orbit occupancy measurements** |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Elevation angle (on the edges of visible arc)** | **Visible arc** | | 5° | from 13° E to 129° E | | 15° | from 22° E to 120° E | | 20° | from 32° E to 110° E | | |

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