



GOVERNO DE  
**ANGOLA**

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Ministério das Telecomunicações, Tecnologias  
de Informação e Comunicação Social



# ANGOSAT-2

## HIGH THROUGHPUT SATELLITE



# PRESENTATION

ANGOSAT-2 is a high throughput satellite for the African market, and Southern Europe. Optimised for clients operating broadband, data, telecommunications and video services. It provides high performance Ku-band beams ideal for innovative applications in bandwidth demanding markets.

ANGOSAT-2 is a project of the Republic of Angolan Space Program, built by ISS RESHETNEV (Service Platform) and Airbus Defense and Space (Payload), launched on 12/10/2022 and has two (2) Mission and Control Centers to monitor and manage the satellite.

The GGPEN (National Space Program Management Office) operates the ANGOSAT-2 satellite, simultaneously with the back-up center in Russia and commercialize the capacities to the national and international markets, where the satellite has coverage.

# ESPECIFICATIONS AND COVERAGE ZONES

## C BAND

**Transponders:** 6

**Transponder Size:** 72 MHz

**Downlink Frequency Range:** 3694 – 4166 MHz

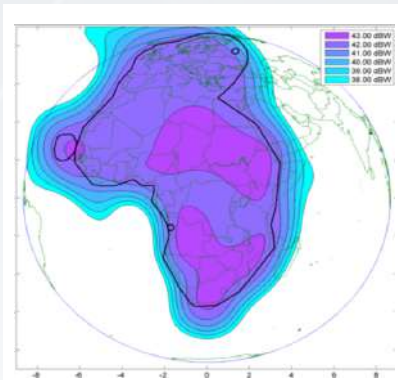
**Uplink Frequency Range:** 5919 – 6391 MHz

**Polarization:** Circular RHCP Downlink & LHCP Uplink

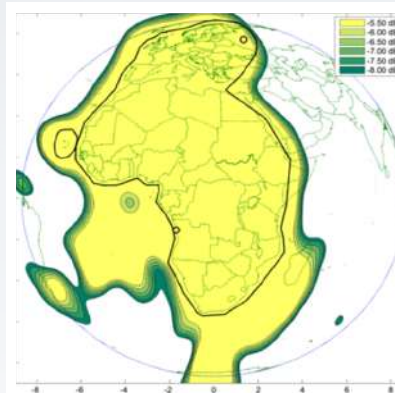
**Minimum Beam EIRP:** 41 dBW

**G/T of Transponders:** -5.5 dB/K

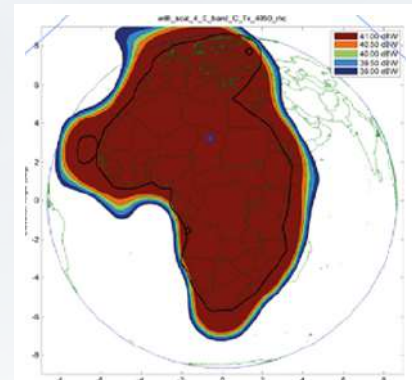
**Coverage Zones:** Africa & Europe



EIRP Isolation C band



G/T C Band



EIRP b C band

# ESPECIFICAÇÕES AND COVERAGE ZONES

## KU-BAND (HTS)

**Spot Beams:** 24

**Spot Beam Size Forward Link:** 112.5 MHz

**Spot Beam Size Return Link:** 108 MHz MHz

**Downlink Frequency Range:** 10950 – 11200 MHz

**Uplink Frequency Range:** 14000 – 14250 MHz

**Minimum Beam EIRP:** 55 dBW

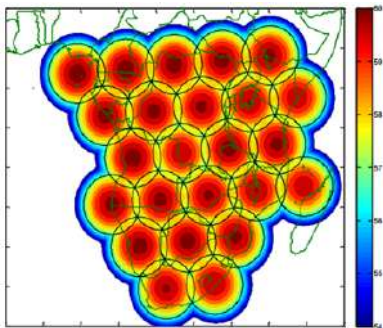
**Polarization:** Linear (V&H)

**Beam G/T:** 7.3 dB/K

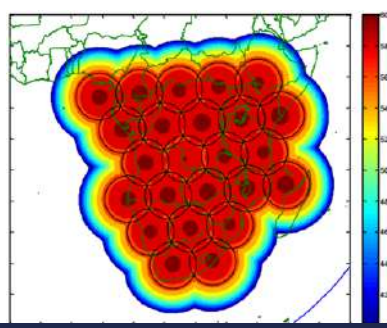
**Coverage Zones:** All Southern Africa & part of Central and East Africa

**Operation Mode:**

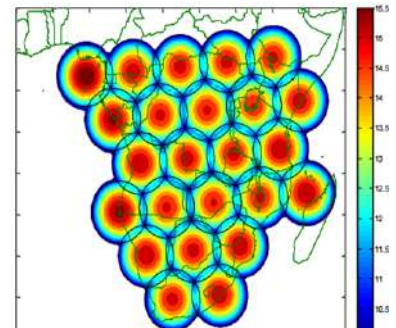
- Ku band TWT at 3 dB OBO for the forward link
- Ka band TWT at 5 dB OBO for the return link.



User EIRP HTS Ku banda  
(dBW)



EIRP for users outside Ku  
band coverage



User HTS Ku band G/T  
(dB/K)

# ESPECIFICATIONS AND COVERAGE ZONES

## KA-BAND (HTS GATEWAY)

**Spot Beam:** 1

**Beam Size:** 3000 MHz

**Downlink Frequency Range:** 17300 – 18800 MHz

**Uplink Frequency Range:** 27.5 – 28.5 GHz & 30.0 – 30.5 GHz

**Polarization:** Circular (RHCP & LHCP)

**Minimum Beam EIRP:** 59 dBW

**Beam G/T:** 17.4 dB/K

**Converge zone:** Luanda

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[www.ggpen.gov.ao](http://www.ggpen.gov.ao)

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