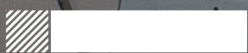




GROUND SEGMENT SERVICES



060325



YEAR 2025

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WE ARE VENG

VENG is an Argentine company of services and technological developments of high added value specialized in the space activity. We offer to the space industry and the industry in general, engineering and manufacturing services for the **resolution of complex R+D+i problems**.

We are developing a satellite launcher to provide **launch services from Argentina to the world**, and thus join the small group of countries that master these capabilities and are part of the global expansion of space activity for commercial purposes.

+17
years of
experience

+420
staff of collaborators

+15
years of
ground stations operations

**Operation of the ground
station in Córdoba**

2009 - - - - - TODAY

**Tierra del Fuego ground
station operation and
maintenance**

2018 - - - - - TODAY

OUR LOCATIONS



Teófilo Tabanera Space Center



- Satellite Mission Control Center
- Ground Station operation Córdoba
- Engineering
- Metal-mechanical fabrications
- Heat treatment
- Image Processing
- Manufacturing, Integration, and Testing

Punta Indio Space Center



- Engineering
- Production of aerospace vessels
- Metal-mechanical fabrications
- Engine Testing

Manuel Belgrano Space Station Center



- Launching Base
- Engineering

Villa Elisa Auxiliary Installation



- Electronic engineering specialized in RF
- Electronic Laboratory

Ground Station of Tierra del Fuego



- Operation of ground stations

Buenos Aires City Headquarters



- General Administration
- Engineering

GROUND SEGMENT

VENG has been designated by CONAE (National Commission for Space Activities) to market the services provided by its ground stations.

CONAE has currently got two ground stations which are capable of providing support for TT&C Services (Tracking, Telemetry and Commands), satellite missions, launch vehicles, and data download services of satellite instruments from different missions.

SAOCOM MISSION CONTROL CENTER OPERATION

Welcome to the operational epicenter of the SAOCOM constellation. Since the launch of SAOCOM 1A in 2018, we lead the Mission Center with a specialized focus on Semi-Automated Operations, critical satellite maneuvers and maintenance. Our dedication translates into 24/7 uninterrupted attention and monitoring, backed by a highly available and redundant datacenter.

**34**

daily revisit passes

**SEMI
AUTOMATED**

operation of processes

24/7support and monitoring
for operating platforms**+1000**products generated
and published
automatically per day**CRITICAL
OPERATION**of maneuvers and
maintenance tasks
on satellites**HIGH
AVAILABILITY**and redundancy
data center

We are the vital connection between space and earth, facilitating efficient and reliable operation of the SAOCOM constellation. In every critical maneuver, maintenance and data generation, we are committed to excellence, driving the positive impact of space technology on everyday life and scientific advances.



We have specialized professionals who ensure the accurate execution of more than 1000 satellite scenes generated and published automatically on a daily basis. This capability not only demonstrates our expertise, but also our essential contribution to the field, providing crucial data for various applications.



GROUND STATIONS

Since 2009 we have participated in the operations of CONAE's ground stations.

Due to the central location of the Cordoba Ground Station with respect to the country's territory, it is possible to regularly acquire satellite data from all of

Argentina, Chile, Bolivia, Paraguay and Uruguay and a very important area of Peru and Brazil.

The Tierra del Fuego Earth Station is the southernmost in the continent with TT&C and data download capabilities.

STRATEGICALLY LOCATED IN THE SOUTHERN HEMISPHERE

CORDOBA

Latitude: 31° 31' 29,9501"S (-31,524986)
Longitude: 64° 27' 45,8611"W (-64,462739)
Altitude: 730 m

TIERRA DEL FUEGO

Latitude: 54° 30' 37.6151"S (-54.510448)
Longitude: 67° 06' 56.0343"W (-67.115565)
Altitude: 146 m146

ANTARCTICA

COMING SOON



CORDOBA GROUND STATION

The Cordoba Earth Station (ETC) is located at the Teofilo Tabanera Space Center (CETT) and carries out the activities of reception, processing, publication and storage of satellite information generated by different Earth observation satellites.

› Antenna dimensions

3.6; 5.4 (mobile); 7.3 and 13.5 m

› Services

TT&C in S-Band

X-Band data download



TIERRA DEL FUEGO GROUND STATION

The Tierra del Fuego Earth Station is located near the town of Tolhuin and is equipped with two parabolic reflector satellite antenna systems.

› Antenna dimensions

7.3 and 13.5 meters

› Services

TT&C in S-Band

X-Band and Ka-Band data downloads



GROUND SEGMENT SERVICES

Fully automatic. Transfer from one satellite to another in **30 seconds**. Product catalog available **one hour** after satellite pass. Over **100 gigabytes** of data downloaded per day.



**HIGH POWER
AVAILABLE**



**HIGH AVAILABILITY
OF CONNECTIVITY**



**7X24 SERVICE
ALL YEAR ROUND**

FEATURES OF OUR SERVICES



**SITES PREPARED
FOR GROUND
STATIONS**



SAFE AREAS



**ON-SITE TECHNICAL
SUPPORT**



**BACKED-UP
ELECTRICAL SYSTEM**



**HIGH SPEED
INTERNET**

GROUND STATION ENGINEERING

Engineering for the development of ground segment infrastructure. Development of specific software for mission control centers and Ground Stations.



KNOW HOW



**INTERNET
SERVICE**



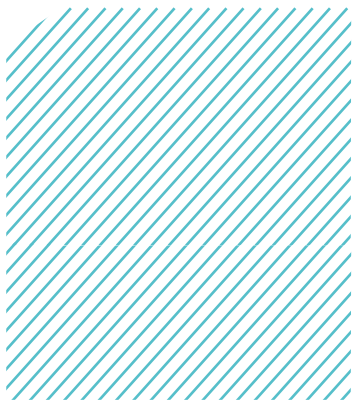
SERVERS



MAINTENANCE

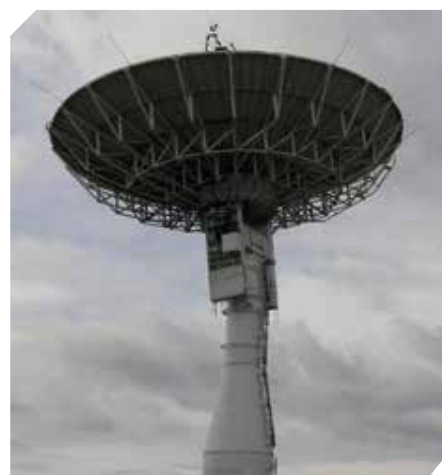
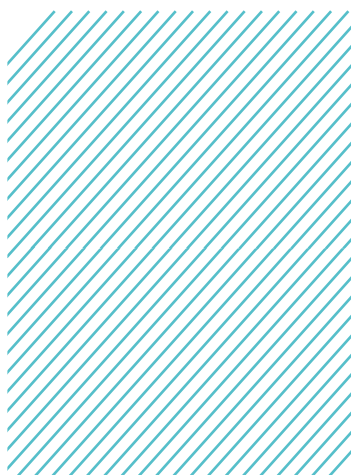


ANTENNA SPECS



	S-BAND	S-BAND
Location	Cordoba	Cordoba
Dish Diameter	3,6m	5,4m
Brand	Scientific Atlanta	ViaSat
Tx Frequency Range	2025 MHz to 2120 MHz	2025 MHz to 2120 MHz
Rx Frequency Range	2200 MHz to 2300 MHz	2200 MHz to 2300 MHz
Antenna Gain	35,36 dBi	37,4 dBi
G/T	12,43 dB/°K min	16,0 dB/°K a RHCP
Tx Polarization	Lineal	RHCP/LHCP selectable
Rx Polarization	RHCP/LHCP simultaneous	RHCP/LHCP simultaneous
Tx Power	2W to 200W selectable	2W to 200W selectable
EIRP	54,5 dBW @ 200W	58 dBW @ 200W
Beamwidth	2,7° Nominal	0,82° Nominal

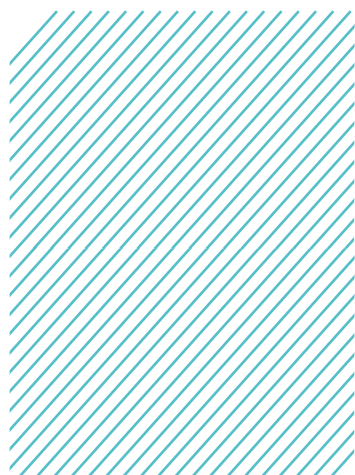
	X-BAND	X-BAND
Rx Frequency Range	8025 MHz to 8400 MHz	8025 MHz to 8400 MHz
Antenna Gain	46 dBi	51,8 dBi
G/T	25,68 dB/°K	31 dB/°K
Rx Polarization	RHCP	RHCP/LHCP simultaneous
Beamwidth	0,7° Nominal	0,4° Nominal

**S-BAND****S-BAND**

Location	Cordoba	Cordoba
Dish Diameter	7,3m	13m
Brand	Datron	Datron
Tx Frequency Range	2025 MHz to 2120 MHz	2025 MHz to 2120 MHz
Rx Frequency Range	2200 MHz to 2400 MHz	2200 MHz to 2400 MHz
Antenna Gain	41,05 dBi	45 dBi
G/T	18,94 dB/°K	24 dB/°K
Tx Polarization	RHCP/LHCP selectable	RHCP/LHCP selectable
Rx Polarization	RHCP/LHCP simultaneous	RHCP/LHCP simultaneous
Tx Power	3,2W a 100W selectable	2W a 200W selectable
EIRP	58,9 dBW to 100W	62 dBW to 200W
Beamwidth	1,3° Nominal	0,8° Nominal

X-BAND**X-BAND**

Rx Frequency Range	8025 MHz to 8400 MHz	8025 MHz to 8400 MHz
Antenna Gain	54,5 dBi	59,3 dBi
G/T	30,87 dB/°K	37,5 dB/°K
Rx Polarization	RHCP/LHCP selectable	RHCP/LHCP selectable
Beamwidth	0,3° Nominal	0,19° Nominal



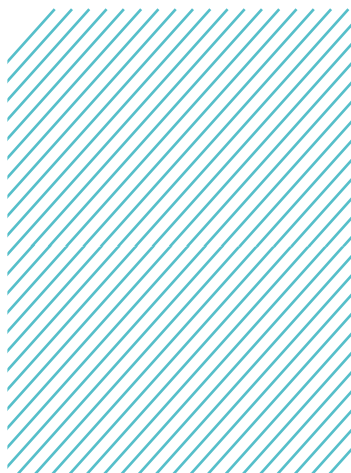
S-BAND

Location	Tierra del Fuego
Dish Diameter	7,3m
Brand	ViaSat
Tx Frequency Range	2025 MHz to 2120 MHz
Rx Frequency Range	2200 MHz to 2400 MHz
Antenna Gain	41 dBi
G/T	18,91 dB/°K
Tx Polarization	RHCP/LHCP selectable
Rx Polarization	RHCP/LHCP simultaneous
Tx Power	3,2W to 200W selectable
EIRP	58 dBW @ 200W
Beamwidth	1,2° Nominal

KA-BAND

X-BAND

Rx Frequency Range	25.5 GHz to 27 GHz	8000 MHz to 8500 MHz
Antenna Gain	59,8 dBi	53.7 dBi
G/T	36,77 dB/°K	32.5 dB/°K
Rx Polarization	RHCP/LHCP simultaneous	RHCP/LHCP simultaneous
Beamwidth	0,1° nominal	0,3° nominal

**S-BAND****S-BAND**

Location	Tierra del Fuego	Antarctica
Dish Diameter	13,56m	6,1m
Brand	ViaSat	ViaSat
Tx Frequency Range	2025 MHz to 2120 MHz	2025 MHz to 2120 MHz
Rx Frequency Range	2200 MHz to 2300 MHz	2200 MHz to 2300 MHz
Antenna Gain	45 dBi	41,7 dBi
G/T	24,56 dB/K°	18,3 dB/°K
Tx Polarization	RHCP/LHCP selectable	RHCP/LHCP selectable
Rx Polarization	RHCP/LHCP simultaneous	RHCP/LHCP simultaneous
Tx Power	2W to 660W selectable	2W a 200W selectable
EIRP	69,2 dBW @ 660W	58,1dBW @ 200W
Beamwidth	0,71° Nominal	1,6° @ 2,2 GHz

X-BAND**X-BAND**

Rx Frequency Range	8025 MHz to 8400 MHz	7800 MHz to 8500 MHz
Antenna Gain	59,5 dBi	52,5 dBi
G/T	38,16 dB/°K	30,66 dB/°K
Rx Polarization	RHCP/LHCP simultaneous	RHCP/LHCP selectable
Beamwidth	0,18° Nominal	0,38° Nominal



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