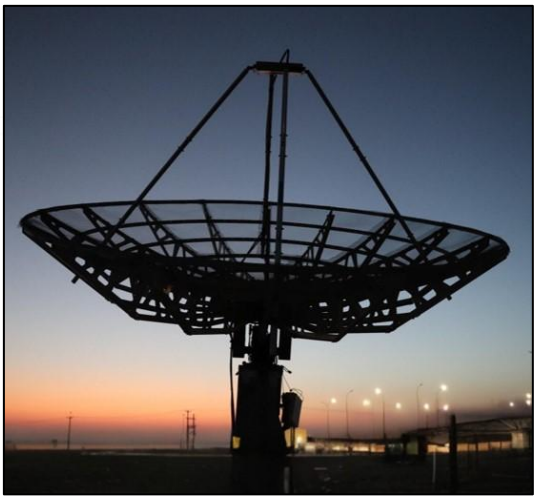
SATREV

SGRS-12P

Ground station to operate your spacecraft

SatRev S.A. is a **Polish space company** established in 2016 operating in the space industry. **NASA's "State of the Art Small Spacecraft Technology"** report lists the company as one of 12 in the world that comprehensively designs, manufactures, and places nanosatellites in orbits around Earth to collect optical data.

Ground Segment Setup



SRGS-12P Ground Station setup with all the basic components.

SatRev's **SGRS-12P Ground Station** is a fully autonomous system that enables you to control satellite communications and transfer data from/to orbit. Operating in UHF and S-Band to provide the connection, operations and data link for **complete sovereign operations** and assured communications access to satellites with short re-visit times and maximized data collection. The implemented UHF radio provides redundant TT&C, while S-band is used for data downlink.

With SGRS-12P you can:

- → Track and communicate with LEO satellite
- → Send and receive narrowband RF data in UHF
- → Receive reduced bandwidth DVB-S2 data on S-band

All-Weather Dome Protection

SatRev's Ground Stations come equipped with a robust dome as a standard feature. This dome provides essential protection for the ground segment, shielding it from harsh environmental conditions. Designed to withstand extreme weather, it ensures the resilience and reliability of your operations, no matter the climate.

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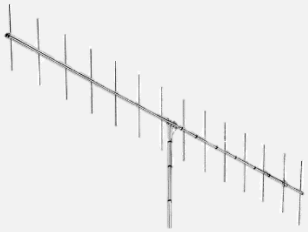
New perspectives
From space.

PLATFORM SUBSYSTEM DETAILS

Antenna Type	 D-3.00M-3000A Prime Focus Mesh Satellite Dish Antenna	 Y-3,0M-220A Yagi-Uda Antenna (optional)
Dimensions	3 m (diameter)	3 m x 0,4 m
Optimized for	2250 MHz	401 MHz
Frequency range	2000 MHz to 2300 MHz	400 MHz to 404 MHz
Polarization	RHCP	linear
Gain	32 dBiC	16 dBi
HPBW	3°	30°
Weight	60 kg	1 kg
Max Velocity	15°/s	15°/s
Max Acceleration	2.5°/s^2	2.5°/s^2
Max Wind Speed	100 km/h	120 km/h
Operating Temp.	-20°C to +55°C	-20°C to +55°C
Weatherproof	Yes	Yes
Connector Type	N Female	N Female

COMPLEMENTARY EQUIPMENT

SRR-420 Antenna Rotator

- Rotator configuration: X/Y
- Control software: SatRev software
- Max rotation speed: 9°/s
- Max acceleration: 2,5°/s^2
- Max torque: 420 Nm
- Max holding weight: 100 kg
- Operating temperature: -20°C to +55°C
- Weatherproof: Yes
- Control interface: fully remote with source code
- Power consumption: 2.2 kW @230 VAC

SatRev Radio Set GS-US-12-1A SDR with High Power Amplifier

Advanced software-defined radio system designed for versatile satellite applications. It features a high-power amplifier to enhance signal strength and reliability, making it ideal for satellite communication use in various fields such as Earth Observation or IoT.

The images and graphics presented on this page are purely illustrative and for reference.

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