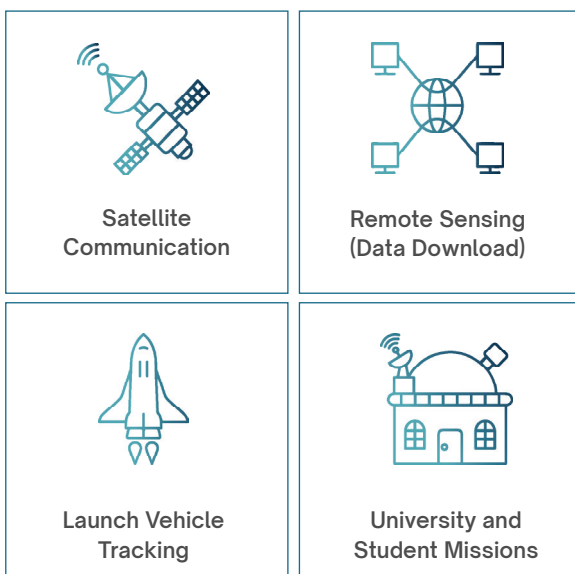


Ecuador Ground Station AST-EC-GS1

Situated near the city of Quito, at a privileged 0° Latitude location, the facility is part of the Astralintu-Sideralis Center for Training and Research on Space Operations, specifically designed to support satellite missions that need UHF, VHF, and S-band narrowband downlink/uplink capabilities.

Equipped with a highly accurate tracking system, capable of achieving 0.1-degree point accuracy, the facility can effectively handle tasks such as TT&C (Telemetry, Tracking, and Command), data download, and early orbit phase activities for Low Earth Orbit (LEO) missions.

Applications



Specifications

Parameter	Details
Antenna Location	Quito, Ecuador (lat -0.195, long -78.46)
Tracking Accuracy	0.10 deg
Bands for Reception and Transmission	Band Receive Frequency: S-band TX 2.1 GHz S-band RX 2.2 GHz UHF Commercial RX/TX 400 MHz UHF Amateur RX/TX 435 MHz VHF RX/TX 145 MHz
Antenna Dimensions	Diameter 3.0M Parabolic Dish Antenna. 28 element Yagi
Polarization Modes	S-band: RHCP UHF/VHF: RHCP/LHCP

Key Features

- High Tracking Accuracy
- Broad Frequency Band Coverage
- Commercial and Amateur Band Compatibility
- Robust Construction
- LHCP/RHCP Polarization Modes
- Green Energy and Carbon Zero