

# Earth station solutions

## Engineered solutions for today's advanced communications systems

For more than 55 years, Calian, Advanced Technologies has been providing antenna and RF solutions that satisfy the unique needs of satellite systems and communication services providers across the globe.

Calian provides full turnkey services to meet all your antenna and RF system needs. From system analysis and design, through equipment specification, integration, on-site commissioning, training and long-term support, Calian supports you through the full project life cycle.

Extensive use of COTS keeps cost, technical risks and development time down. However, when necessary, custom hardware and software solutions designed by Calian ensure unique requirements are satisfied—effectively and efficiently.

Calian is more than an RF system supplier, we're a communications technology engineering company with skilled engineers and technical resources. We look beyond simply selecting components. Calian designs for performance and reliability according to your needs, while minimizing risk

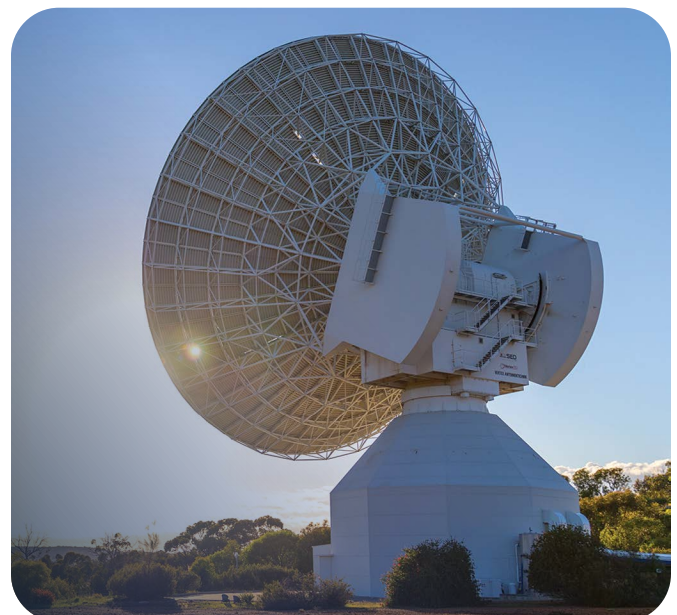
Your project is executed by a dedicated project team, working closely with your engineering and program leaders. We strive for flexibility while ensuring all phases are completed on time and on budget. Our highly skilled RF engineers and designers focus on solving complex technical challenges, while our program staff co-ordinate the flow of information among vendors, site hosts, and you, the customer.

## Applications

Our gateway systems are being used in a wide array of critical satellite applications:

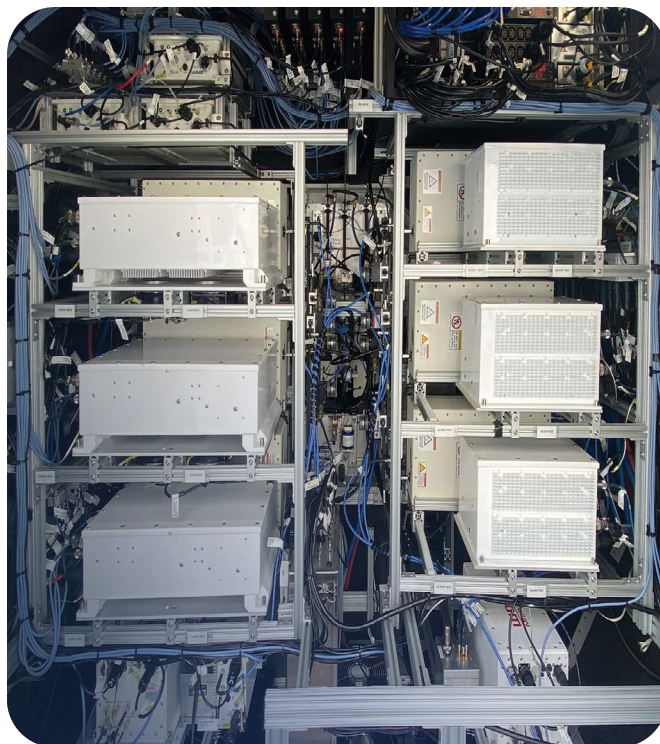
- Communication gateways, with emphasis on high-capacity systems including Ka/Q/V band payloads for HTS/VHTS Systems
- Tracking telemetry and command/mission control
- In orbit test and carrier/spectrum monitoring
- Uplink beacon stations
- Broadcast uplinks
- Earth observation and deep space

The Calian strategy has been to develop and maintain long-term relationships and strategic associations with high quality customers. Our client list includes global industry leaders, many of whom we've worked with for decades.



## Capabilities

- Strong RF engineering capabilities with in-depth knowledge of RF characteristics that impact performance in modern telecommunications systems.
- Long-standing relationships with industry leading RF equipment and subsystem vendors. We select the best product for the application at hand.
- Extensive embedded hardware and software resources to develop custom solutions when off-the-shelf offerings aren't sufficient.



### We're a system solutions provider with extensive experience in:

- Antenna systems from 1.6m to 35m
- Systems for LEO, MEO and GEO applications
- High-density hub integrations
- Tx and Rx chain including baseband
- Uplink Power Control (ULPC)
- Custom monitor and control using our own Mon-A-Co software platform
- Carrier Monitoring Systems (CMS)
- In-Orbit Test (IOT)
- Complex waveguide and switching systems
- Broadcast modulators and demodulators
- Custom HVAC and de-icing solutions



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