RF System Solutions

Engineered Solutions for Today’s Communications Systems

For more than 55 years, Calian, Advanced Technologies has been providing custom 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 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.

Applications

Our RF 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

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.
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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.

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 for Ka/Q/V band equipment
- Complete RF equipment chain, including baseband, converters and amplifiers
- 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
- Modulators and demodulators
- Telemetry, command and ranging processors
- Custom HVAC and de-icing solutions

Contact Darren today.

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