

Calian space solutions

Trusted expertise from Earth to deep space

Calian is a global provider of advanced space solutions and mission-critical technologies, delivering secure communications, defence capabilities, GNSS expertise and high-performance manufacturing solutions worldwide.

From ground systems to mission operations, we engineer certainty in an increasingly complex space environment.

We are the premier provider of advanced space solutions.

Calian is a trusted partner to government and commercial organizations worldwide, providing resilient, secure and high-performance space and satellite solutions.

With decades of expertise and a global footprint, we help customers design, build, deploy and operate advanced space infrastructure on Earth and beyond.

Mission-critical space solutions

Communication ground systems and services

Achieve seamless mission success and uninterrupted data flow with Calian's custom RF and antenna solutions. Whether you're managing high-capacity satellite communications, conducting deep space exploration, supporting mission-critical defence operations, or capturing high-precision radio astronomy data, our multi-band capabilities—spanning from L-band to V-band—safeguard your critical data links and telemetry commands.

We handle everything from custom engineering and precision manufacturing to flawless on-site installation, rigorous testing and final commissioning. Your investment remains fully protected over its entire lifecycle through our dedicated, long-term technical support, ensuring your networks remain resilient, optimized and ready for future advancements.

Antenna solutions

Gain operational confidence and uncompromised uptime for your orbital network with Calian's field-proven antenna systems. Engineered to support GEO, MEO, and LEO constellations, our flexible 2-to-18-metre antennas, deep space specific antennas, gateways and TT&C stations deliver flawless data throughput and seamless network diversity—no matter how harsh the environment.

Our globally deployed infrastructure is purpose-built to eliminate communication bottlenecks, secure your tracking commands and maximize your system reliability from day one.

Teleport services

Maximize your global reach and eliminate connectivity gaps with Calian's strategically positioned teleport network. By seamlessly bridging the gap between your satellite and terrestrial infrastructure, our teleports guarantee smooth traffic management, ultra-efficient data flows and uninterrupted global access.

Operating out of high-availability hubs in Hawaii, Guam and Saskatoon, Calian gives your business the geographical advantage needed to expand your coverage footprint, enhance data reliability and effortlessly scale your global network.

Space mission operations

Secure your entire space mission lifecycle and eliminate ground segment complexity with Calian's unified engineering and operations team. From initial concept to ongoing orbital success, we deliver integrated, mission-ready ground systems that ensure your spacecraft launches flawlessly and performs optimally.

By trusting Calian with your system integration, pre-launch testing, and ongoing command and control, you gain predictive orbit maintenance, efficient payload resource allocation and responsive satellite operations. We handle the heavy technical lift on the ground so you can focus entirely on your data, your customers and your mission milestones.

Mission-critical space solutions

Software solutions	Boost your network profitability and streamline your operations with Calian's high-efficiency satellite software solutions. Engineered specifically for satellite operators, defence and government organizations, and service providers, our innovative technologies transform how you manage your capacity, giving you the power to optimize single or multi-orbit regional and global networks with ease. From our AI powered resource orchestration platform Orchestrator, to tailored, high-performance gateways, we deliver the exact tools you need to maximize bandwidth efficiency, eliminate operational obstacles and confidently scale your services to meet growing demands.
Hardware products and solutions	Maximize your network visibility and minimize your hardware footprints with Calian's high-performance satellite management tools. You can seamlessly digitize your RF architecture and monitor your network health from anywhere using field-proven innovations like Transporter, our RF-over-IP platform that enables virtualized ground infrastructure, Decimator, our industry-leading spectrum analyzer, and our sat-nms line of products for advanced ground stations. Whether you need specialized systems for commercial deployment, high-reliability defense applications, or rigorous testing environments, our elite design and OEM manufacturing teams handle the technical complexity. You get high-performance, tailored technology delivered faster and with lower engineering risks.
GNSS solutions	Achieve uncompromised positioning accuracy and reliable global connectivity with Calian's high-precision GNSS antenna solutions. Built to withstand the most demanding environments, our smart antennas and specialized accessories ensure your high-precision navigation, autonomous positioning, and asset-tracking applications remain locked on target without signal degradation. By integrating our globally trusted Accutenna®, VeraPhase®, VeroStar®, CRPA and Helical architectures into your systems, you gain premium signal tracking, millimeter-level precision and a highly competitive edge in the field.
Manufacturing services	Accelerate your production timelines and lower your operational overhead with Calian's comprehensive contract manufacturing services. Built to meet the rigid quality requirements of both commercial and defense sectors, we seamlessly scale your manufacturing capacity, turning your complex designs into rugged market-ready realities. By leveraging our certified expertise in high-precision circuit card assembly, complex wiring harnesses and advanced composite structures, you eliminate production holdups and reduce field failures. We handle the manufacturing complexity so you can confidently deliver flawless product performance to your end users.

Built for critical missions

Calian's solutions are designed for:

- Defence and national security
- Government agencies
- Satellite operators
- Enterprise connectivity providers
- Remote and mobility applications

We operate where performance cannot fail, from contested environments that require resilient communication and protected operating to remote regions and mission-critical facilities. With international operations and a reputation for delivery, Calian supports customers on every continent.

Space is evolving and connectivity demands are accelerating. Calian ensures your systems are ready—today and tomorrow.



For over 40 years, Calian has delivered mission-critical solutions when failure is not an option. Trusted worldwide, we empower organizations in critical industries to overcome obstacles, manage risks and drive progress. By combining the expertise of our people, proven industry insight, cutting-edge technology, bold innovation and global reach, we deliver tailored solutions that solve complex challenges. Headquartered in Ottawa, Canada, with over 6,000 people around the world, Calian's solutions protect lives, strengthen security, foster global connectivity and drive economic progress, making a lasting impact where and when it matters most.