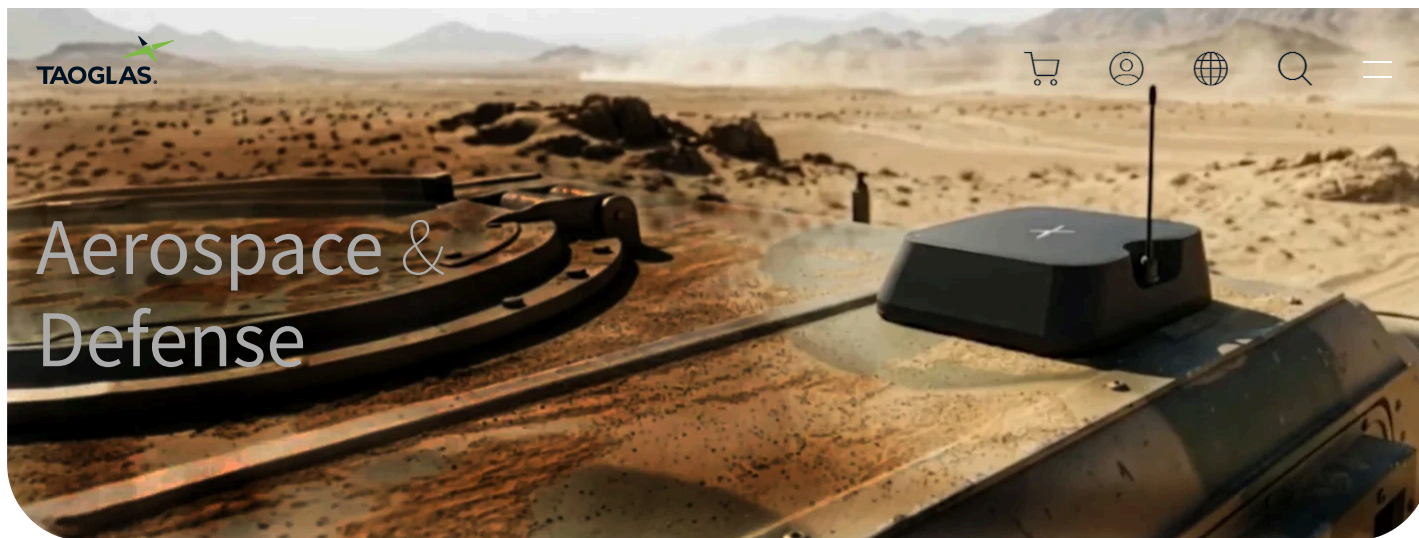




Aerospace & Defense

Reliable Connectivity When It Matters Most

Mission-critical applications demand precision and adherence to the highest standards of design, performance, quality and reliability. Even under the most demanding conditions, failure is not an option. Seamless, reliable connectivity is paramount, and antennas and RF components are a crucial part of the solution.

Taoglas is a U.S. owned company with operations across three facilities in the USA and is a **trusted supplier** to the most recognized names in the aerospace and defense (A&D) industry. We understand the engineering challenges of designing for extreme environments, coupled with the industry's heightened security and regulatory requirements. Our experienced A&D team is dedicated to working with you to design and manufacture reliable and secure solutions that meet your stringent operating requirements—delivering optimal performance and giving you **long-term peace of mind**.

We offer an extensive portfolio of commercial off-the-shelf (COTS) antennas and advanced RF components for you to select from. Or you can leverage our **engineering expertise** to create a custom antenna, precisely designed for your next mission-critical project.



Need help or have a question?
Click here to chat.





On-Demand Webinar: Multi-band GNSS Antenna Integration within EMEA Aerospace and Defense

Watch Now



Innovative COTS Antennas & Advanced RF Components



By optimizing for size, weight, area, and performance (SWaP), our COTS antennas and advanced RF components are designed to deliver **exceptional results in the field**—without compromise. We're committed to pushing the

boundaries of antenna and RF component design.

Our **embedded and external COTS antennas** are meticulously engineered to provide optimal performance in the most challenging environments. Whether you need a compact, low-profile solution for a space-constrained application or a rugged antenna with a wide operating temperature range, we have the ideal solution for you.

Our **advanced RF components complement** our antenna offerings, providing a comprehensive range of solutions for wireless connectivity. These components are designed to meet your requirements, ensuring reliable and efficient performance.

→ [Explore Our Products](#)



Smart Manufacturing - Tougher, Lighter, and Smarter.

Taoglas offers advanced smart manufacturing solutions designed to meet the most demanding requirements, from lightweight and space-constrained designs to extreme durability in harsh environments, for devices such as drones, unmanned vehicles, and soldier-worn wearables.

Our Laser Direct Structuring (LDS) technology enables compact, 3D antennas ideal for wearables and mission-critical devices. Our Taoglas Invisible Antenna technology utilises carbon nanotubes to enable concealed antenna placement, providing access to previously unavailable physical spaces. Beyond these innovations, we also offer a broad portfolio

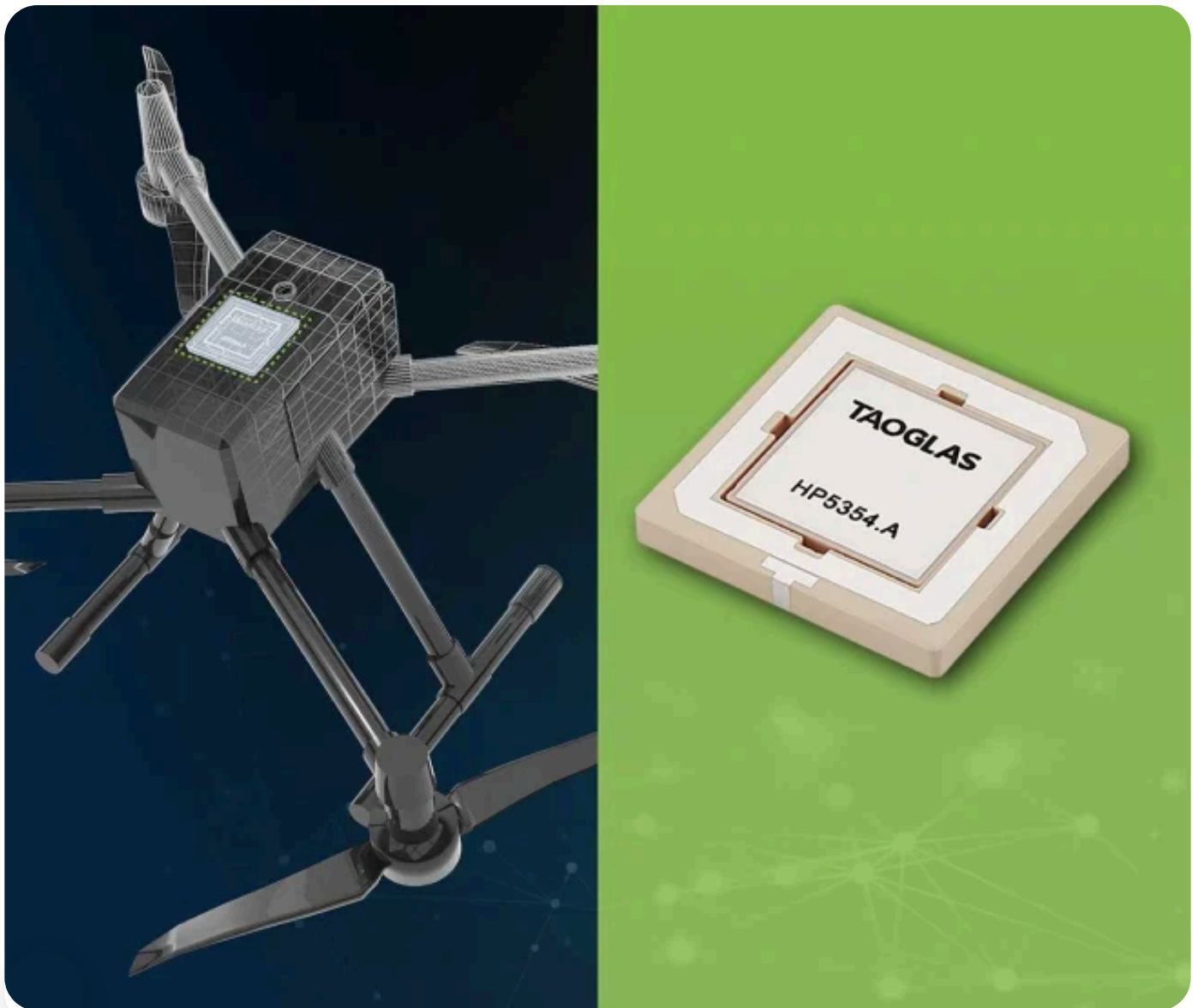


of stamped metal and FPC (flexible) antennas which are available as standard solutions or fully customized to match the exact form and requirements of your device.

For rugged platforms exposed to vibration, impact, and extreme temperatures, our Terrablast technology combines ultra-impact resistance with up to 40% weight savings compared to traditional ceramics, ensuring reliable performance without adding unnecessary mass.

Taoglas is redefining what's possible for GNSS in aerospace and defense—making devices tougher, lighter, and smarter.

→ [Learn More](#)



 **Unwavering Commitment to Quality, Reliability, & Performance**

Since our foundation in 2004, customers have turned to Taoglas for robust and reliable antennas, cable assemblies, connectors, audio and magnetics products. Excellence is at the heart of everything we do.

Commitment to Quality



Our advanced antenna and RF components are engineered to endure the harshest environments. From high temperatures and solar radiation to acoustic vibrations, we know failure is unacceptable. Every product undergoes rigorous testing to ensure it meets the highest quality standards.

Commitment to Long-Term Reliability



We are well-equipped to provide reliable components that meet the requirements of mission-critical applications, ensuring seamless connectivity. Our focus on durability and longevity means our products can withstand the test of time, reducing maintenance costs and downtime.

Commitment to Performance



We leverage our in-depth knowledge of RF technology, physics and materials science to design and manufacture high-performance products. Whether you need to optimize your solution with wide temperature ranges, high gain, cm-level accuracy, or high efficiency, we are committed to meeting your unique specifications.





In-house Engineering & Manufacturing Facilities

Taoglas has facilities and design centers around the world to meet your needs. Our office locations are strategically placed to offer the best customer support and lead times, while meeting regulatory requirements. While our roots are traced to Ireland, Taoglas is now U.S. owned, and Taoglas USA is headquartered in San Diego, California.

Our San Diego facility is equipped to handle your next aerospace & defense project. It features state-of-the-art RF test labs, performance verification, new product R&D, and a Cable and Connector Division (CCD). With certified technicians for **IPC-A-610** and **IPC-A-620S** for **Military and Space cable assembly** applications, this facility also houses our dedicated A&D team, encompassing seasoned specialists across engineering, customer service, operations, and sales, who understand the importance of compliance.



We are committed to continuing the advancement of our San Diego, California H.Q. for “Made in America” manufacturing, including Buy America Compliance and Trade Agreements Act Compliance. Additionally, our

Minneapolis facility can provide support for A&D projects, with antenna engineering experts and advanced R&D test labs



Zero-Trust Security & Cybersecurity Measures

In today's evolving threat landscape, a zero-trust approach is imperative. While our antennas themselves do not process or store data, we remain steadfast in implementing robust security and cybersecurity measures for all our customers, especially those in highly regulated industries. To this end, Taoglas is:

- ◆ CMMC Level 2 ready
- ◆ ISO 27001: 2022 certified

Through the U.S. Department of Defense (DOD) Cybersecurity Maturity Model Certification (CMMC) Program, Taoglas is committed to meeting the rigorous cybersecurity standards required by the DOD and its supply chain. Taoglas is CMMC



Level 2 ready. **CMMC Level 2 readiness** involves a thorough approach to safeguarding information by implementing over 110 security practices, including multifactor authentications, continuous monitoring, and risk assessment protocols. Taoglas is also **ISO 27001:2022 certified**, which requires validation of our information security management system's adherence to international standards.



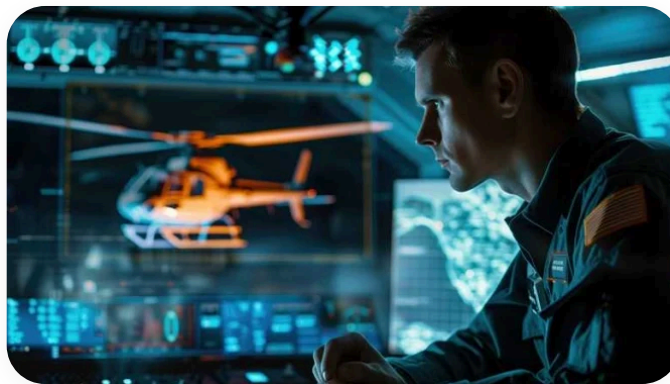
ICATION AREAS



Trusted connectivity in **mission-critical** applications



Unmanned Aerial Vehicles (UAV)



Communications



Aerospace



Personal Systems & Wearables

Naval

Spotlight on Customer Success

EIRSAT-1 Satellite Mission



EIRSAT-1 Satellite Mission

Space is a hostile environment. An antenna must withstand the shock, acoustic vibrations, and sudden atmospheric pressure fall during strenuous launch and eject phases while continuing to perform with high-temperature changes and solar radiation. The EIRSAT-1 team selected a Taoglas GPS/GALILEO patch antenna for its lightweight and low-volume characteristics while ensuring high gain and wide bandwidth.

“The quality of what you put into space is paramount – everything must be 100% QC tested and the absolute best quality. You need to know that what you put up there will not fail you when you most need it. We required a GNSS antenna solution that could withstand the extreme conditions of space while reliably locating the satellite’s scientific measurements in orbit. Taoglas provided the **ideal solution** with their direct solder mount GNSS antenna, demonstrating the innovation and precision necessary for this pioneering mission.”

- Dr. Ronan Wall, EIRSAT-1 Project Manager



→ [Read the Case Study](#)



Unlock the Future of the Smart Battlefield

The Taoglas Aerospace & Defense Application Guide is your go-to resource for mission-critical wireless solutions in today's evolving defense landscape.

From anti-jamming GNSS systems to AI-powered targeting and multi-domain operations, this guide offers deep insights into how cutting-edge technology is redefining connectivity, command, and control across land, sea, air, and space. Whether you're dealing with complex electromagnetic environments or need rugged, high-performance antennas tailored to defense platforms, this guide details real-world solutions trusted by global defense leaders.

Learn how Taoglas is supporting innovation in electronic warfare, drone tech, battlefield data integration, and more with proven expertise and ITAR-registered quality.

→ [Download our Guide](#)

Contact Our Dedicated A&D Team

Taoglas is committed to empowering the A&D industry with **reliable and secure** connectivity solutions. By providing a comprehensive range of high-quality antennas, advanced IoT components, and custom design services, we enable our customers to achieve their mission-critical objectives and have long-term peace of mind. To learn more about how Taoglas can support your next project, contact our A&D team at aero.defense@taoglas.com today.



**Quick Fix: Understanding the
Technologies and Business
Opportunities in GNSS Correction
Services**

2 mins read

12 Feb 2026

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