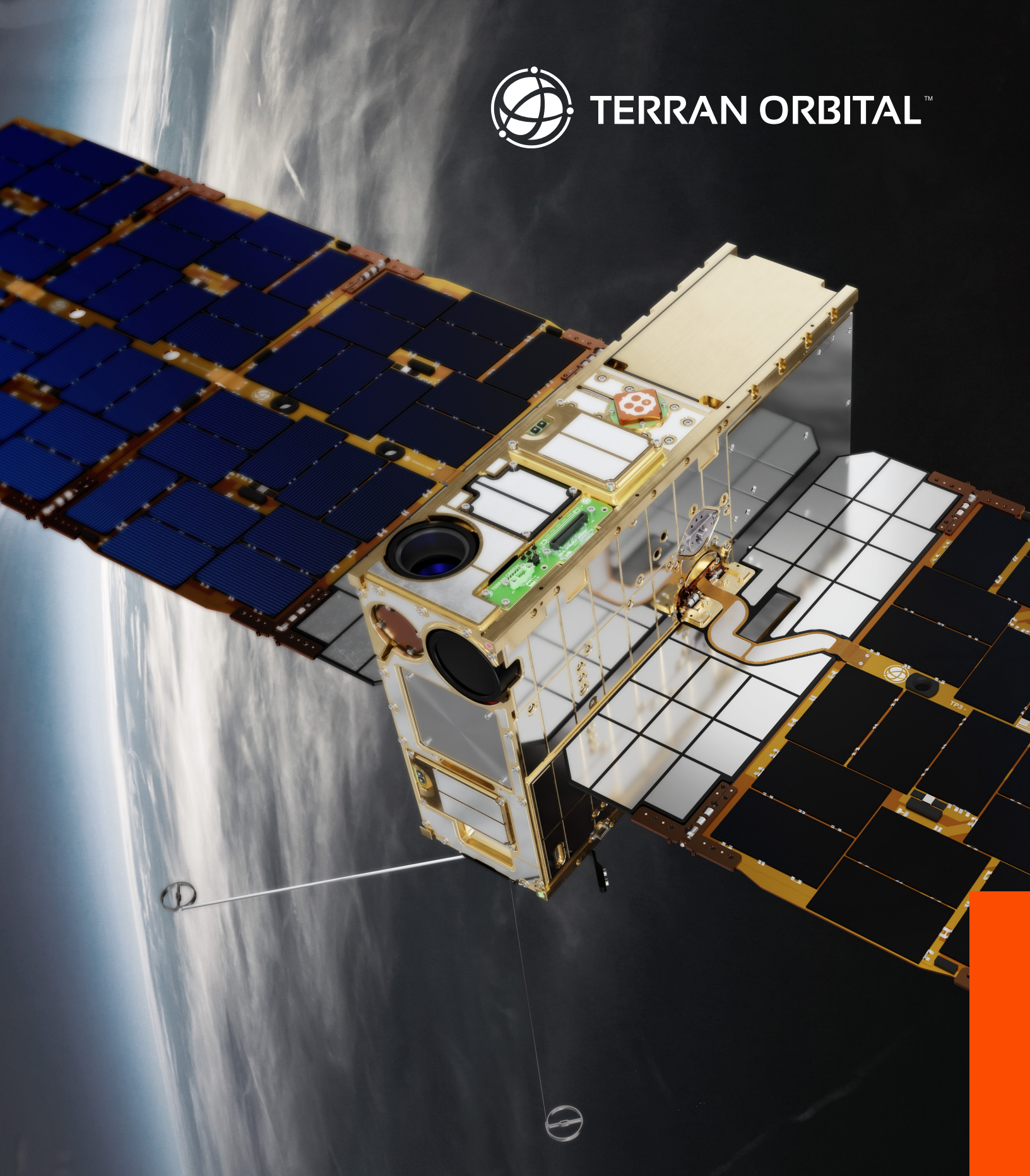




TERRAN ORBITAL™



**SPACECRAFT DESIGN
& ENGINEERING**

ENGINEERING MISSION SUCCESS

At Terran Orbital, our vertically integrated manufacturing process supports a wide range of mission programs via design, testing, and inventory. We leverage our flight heritage across all platforms, delivering the highest-quality solutions for our customers.

Spacecraft subsystems are built in-house, allowing us to maintain quality control, timelines, and costs. For third-party subsystems, we work closely with key strategic supply-chain partners and establish multiple sources for each to reduce risks.

Our internal production process puts components through multiple levels of testing and acceptance. Expert designers are on-site to delegate and solve any issues immediately.

Our vertically integrated method removes the need for multiple Interface Control Documents (ICDs) and black boxes, as well as lowering supply chain delays. We apply lessons learned in the design process to update our builds for faster, easier, and more comprehensive testing and assembly.

Scalable manufacturing gives us increased production, quick throughput, and cost-effective delivery of full turnkey solutions and buses. Terran Orbital is committed to meeting customer needs by providing the best solutions.



BUSES

We supply a variety of bus product lines to meet different mission requirements, including mass, power load, and launch vehicle compatibility. Terran Orbital prides itself on fast turnaround time from order to delivery as we provide buses to major space and government customers such as Lockheed, DoD, NASA, and ESA.



FLIGHT HERITAGE

Terran Orbital has decades of experience in spacecraft construction, operation, and deployment. Our engineers have provided launch services to over 200 satellites and supported over 80 missions over the past decade. From establishing the CubeSat standard to sending spacecraft to orbit the moon, our flight heritage is unmatched.

RF SOLUTIONS

Terran Orbital's RF Solutions Group has extensive expertise in passive RF, antenna arrays, and active synthetic aperture radar (SAR). PredaSAR, our SAR satellite product line, is outfitted with a flexible and responsive remote sensing platform, low latency, frequent revisit times, and the ability to host secondary payloads. We design and build satellites to meet the requirements of our commercial and national security customers.





OPTICAL SOLUTIONS

The Optical Solutions Group develops and builds cost-effective and responsive space-based imaging solutions for Earth Observation and Space Domain Awareness. Terran Orbital's family of satellite bus platforms employ these solutions, featuring agile boresight and broadband communications, and are coupled with both internally developed and partner optical solutions.

For more information, visit
TERRANORBITAL.COM

Made in USA.

ASSEMBLY, INTEGRATION, & TEST

Terran Orbital performs Assembly, Integration, and Test (ATI) at its facility in Irvine, California. Cleanroom spaces operate at Class 100k (ISO8), bringing bench surfaces down to 1K for optics and sensitive payload work. Parts move on a circular path through the lab to prevent contamination of clean components while Robotic Process Automation (RPA) decreases cycle times and increases capacity.

AI&T is a comprehensive verification and validation method that focuses on testing early and often. System requirements for spacecraft bus components are met by undergoing module-level acceptance, stress screening, testing, and inspection before vehicle integration. Throughout module production, bus assembly, and payload integration, several tests are conducted to verify and validate system requirements.



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