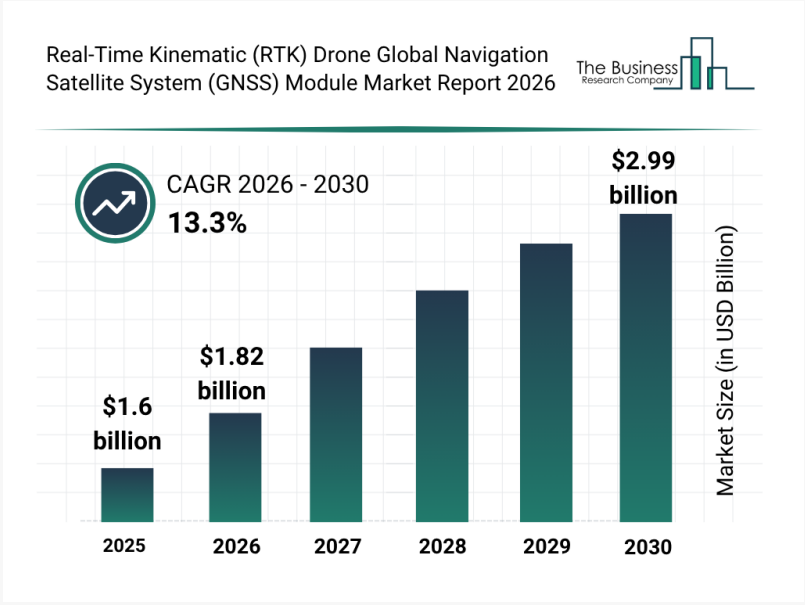
Real‑Time Kinematic (RTK) Drone Global Navigation Satellite System (GNSS) Module Market Forecast Report Analysis

The Business Research Company's Real‑Time Kinematic (RTK) Drone Global Navigation Satellite System (GNSS) Module Global Market Report 2026 – Market 2026-2035



Real‑Time Kinematic (RTK) Drone Global Navigation Satellite System (GNSS) Module Market Report

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, September 14, 2026 /EINPresswire.com/ -- The Real-Time Kinematic (RTK) drone GNSS module market is quickly evolving, driven by technological advancements and the expanding use of drones across various industries. With increasing demand for precision and reliability in navigation systems, this market is set to experience significant growth in the coming years. Let's delve into the current market landscape, growth drivers, regional insights, and emerging trends shaping the future of RTK drone navigation modules.

Steady Market Growth and Projections for RTK Drone GNSS Modules

The market for real-time kinematic drone GNSS modules has witnessed rapid expansion over recent years. It is projected to rise from $1.6 billion in 2025 to $1.82 billion in 2026, growing at a compound annual growth rate (CAGR) of 13.7%. This historical growth has been fueled by limitations in traditional GPS navigation systems, increasing demand for precise aerial surveying and mapping, the commercial uptake of drones, the need for geospatial data in sectors like construction and agriculture, and the development of satellite positioning infrastructure.

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Looking ahead, the RTK drone GNSS module market is expected to accelerate further, reaching $2.99 billion by 2030 with a CAGR of 13.3%. This forecasted surge is driven by the rising use of autonomous drones in logistics and delivery, advancements in precision agriculture and smart farming, a growing need for highly accurate geospatial data in infrastructure projects, expansion of 5G and cloud connectivity for real-time positioning, and increasing integration of AI-powered autonomous navigation systems. Key trends during this period include the broader adoption of cloud-based RTK correction services, AI-enhanced flight control systems paired with RTK modules, demand for reliable navigation in industrial drones, and the growth of IoT-enabled communication within advanced drone navigation platforms.

Understanding the Role of RTK GNSS Modules in Drones
RTK GNSS modules provide high-precision positioning for drones, enabling centimeter-level accuracy in location data. These modules function by combining carrier-phase measurements from satellite signals with correction information from a nearby base station or network. The result is significantly improved reliability and accuracy, which supports precise navigation, detailed mapping, and automated flight operations in drone applications.

View the full real□time kinematic (rtk) drone global navigation satellite system (gnss) module market report:
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Precision Agriculture as a Major Market Driver for RTK Drone GNSS Modules
One of the most significant factors fueling market demand is the increasing adoption of precision agriculture. This modern farming approach relies on data-driven techniques using GPS, automation, and remote sensing to optimize crop management and resource use at the field level. As farms seek to improve operational efficiency and reduce costs while maximizing yields, they depend heavily on automated guidance and positioning technologies. RTK drone GNSS modules are crucial in this context, providing the centimeter-level accuracy needed for dependable performance of automated agricultural equipment and aerial platforms.

Supporting this trend, a January 2024 report from the Government Accountability Office revealed that in 2023, 27% of U.S. farms and ranches employed precision agriculture methods to manage crops or livestock. This demonstrates the growing reliance on such technologies, highlighting precision agriculture's role as a key growth driver for the RTK drone GNSS module market.

North America Leads the Market with Asia-Pacific Showing Fastest Growth
In 2025, North America held the largest share of the RTK drone GNSS module market, reflecting strong technological adoption and infrastructure. On the other hand, the Asia-Pacific region is predicted to experience the fastest market growth during the forecast period. The market report includes detailed regional analyses covering Asia-Pacific, South East Asia, Western and Eastern Europe, North America, South America, the Middle East, and Africa, offering a comprehensive overview of global developments and opportunities.

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• Excel-based forecasting dashboards
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