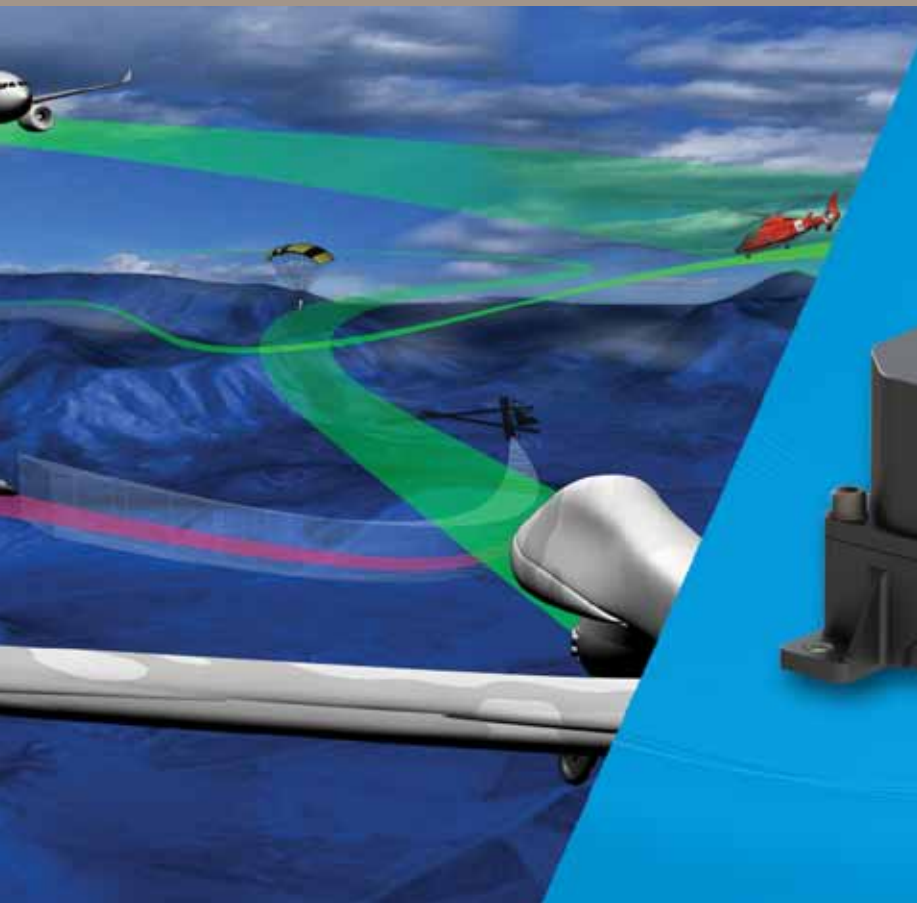


RTK SAASM GPS receiver



The Rockwell Collins RTK SAASM GPS receiver is the first in the industry to provide unmanned aircraft systems with centimeter-level GPS navigation accuracy and SAASM security.

Carrier phase, real-time kinematic (RTK) GPS is a relative positioning technique commonly used in commercial and military applications that require centimeter-level navigation accuracy.

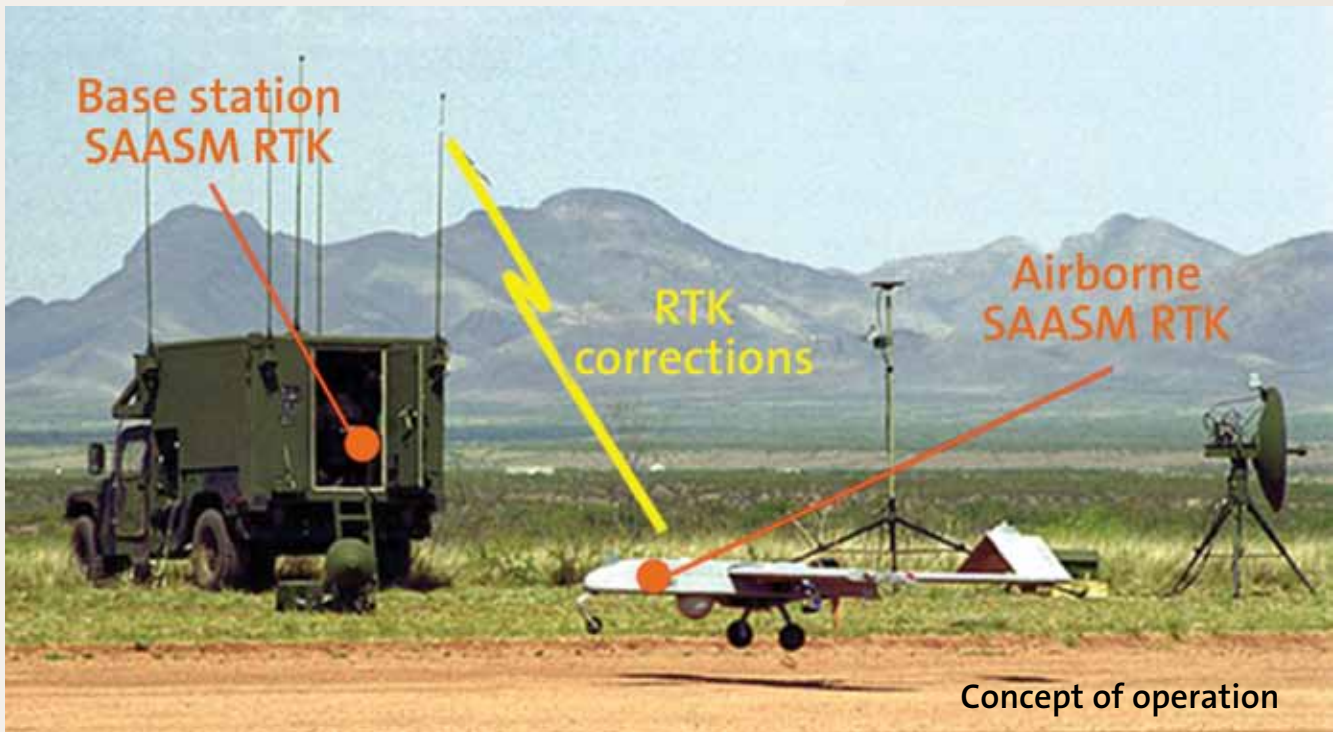
Until now, military operations that required centimeter-level GPS navigation accuracy were based on commercial RTK GPS receivers. The U.S. Department of Defense has mandated the use of selective availability anti-spoofing module (SAASM) GPS in all programs of record.

With the Rockwell Collins RTK SAASM technology solution, unmanned aircraft systems can now achieve centimeter-level relative navigation accuracy for autonomous capture, landing or other operations, while benefiting from the high-security features of the SAASM GPS receiver.

Rockwell Collins also is the first to offer a SAASM GPS RTK unit as a standalone or embedded module.

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Similar to standard differential GPS, the concept of operation is based on transmission of RTK measurements from a base-station receiver to the airborne receivers.

Our RTK SAASM solution enables cost-effective solutions for many other applications, including targeting and north-finding applications.

KEY BENEFITS AND FEATURES

- Primary or backup to any ground-based radar tactical autoland system to increase integrity and reliability of autoland
- Proven push-button takeoff and autoland capability on multiple vertical takeoffs and landings and fixed-wing platforms (no pilot in the loop)
- Enables autonomous rolling takeoff
- Enables autoland in operations with small footprint
- Improved, high-precision targeting and strike
 - Provides 20 cm (1s) 3D relative position accuracy for baselines up to 8 km
 - Incorporates geometry redundant almost fixes solution (GRAFS) to provide a high-integrity solution with high availability
 - Does not use satellite-based augmentation system or other “spoofable” correction methods
 - SkyHook autoland catches a vertical wire in the recovery system
 - Highly accurate, closed-loop navigation performance

Size 4.5 x 4.3 x 3.1 inches
 Weight 1.4 lbs.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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