

# Hemisphere GNSS Releases New GNSS RTK Engine

Hemisphere GNSS has announced the launch of Athena, its next-generation GNSS engine. According to the company, the new core engine has been designed to maximise the ability to excel at the rigorous GNSS requirements of multiple market segment customers in machine control, survey and GIS.

Athena is developed for application in virtually every environment where high-accuracy GNSS receivers can be used. Hemisphere's customers have tested and proven Athena's performance in long baseline, in open-sky environments, under heavy canopy, and in geographic locations experiencing significant scintillation.

The company claims the brand-new GNSS RTK engine has one of the most reliably consistent initialisation performances in the industry, while at the same time performing initialisations in less than 15 seconds at better than 99.9% reliability

The Athena offers robustness in very difficult operating environments – extremely high productivity under the most aggressive of geographic and landscape oriented environments for GNSS. Further its performance on long baselines is significant, with position stability for long baseline applications, with position quality often times exceeding the performance of the best-of-breed RTK systems on the market, Hemisphere GNSS states. Another highlight is the performance under scintillation: sustained accuracy under ionospheric scintillation activities, providing a reliable way in the market to work with GNSS in scintillation-affected areas

## Carlson

Carlson Software has extensively tested Hemisphere's new Athena RTK engine on the Carlson BRx5 GNSS receiver. The Athena RTK engine provides precise, reliable, and repeatable positions. Athena exceeds or matches the performance of all other GNSS receivers it has been tested against. The company was particularly impressed with the performance of the Athena engine, when using a long baseline or in areas where there is a limited view of the sky. Athena is a first-class RTK engine, expressed Butch Herter, director of hardware development, Carlson Software.

## Novariant

Novariant found Athena to offer exceptional performance, especially their RTK fix times and maintaining RTK lock on long baselines, said David Vaughn, CEO of the precision steering solutions company. With the latest competitive performance testing completed, Novariant is excited about adding Hemisphere's Athena offering to the list of the Novariant-recognised certified receivers that, when combined with the precision steering solution, can assure centimetre-level steering control in the toughest environments in the world, he added.