

For Immediate Release

Hemisphere GNSS Announces All-New Rugged Atlas®-Capable UAV GNSS Antenna

Denver, CO, USA – May 1st, 2018 – Today, at [AUVSI XPONENTIAL 2018](#), Hemisphere GNSS ([booth #4228](#)) announces the all-new multi-GNSS, multi-frequency 4-helix [HA32 UAV antenna](#). The HA32 is a high-performance antenna that supports GPS, GLONASS, Galileo, BeiDou, Hemisphere's own [Atlas L-band correction service](#), and was designed specifically for UAVs, GIS, surveying, RTK, and other applications requiring high-precision positioning and navigation.

The HA32 is built on an innovative and proprietary 4-helix antenna technology that provides superior filtering and anti-jamming performance with LNA features such as low noise figure of 2.0 dB (typical) and up to 30 dB gain (typical). Suitable for most outdoor and harsh operating environments, the HA32 antenna is sealed in a durable and ruggedized IP67-rated enclosure for protection against dust and water and is equipped with an O-ring. The lightweight (40 g, typical) and compact form-factor (40 mm x 75 mm) design of the antenna makes it resistant to wind when installed on UAVs and offers easy integration with a single SMA RF connector.

"We are very excited to be introducing this extremely competitive entry-level UAV GNSS antenna for a wide range of positioning and navigation applications such as UAVs, GIS, and RTK," says Miles Ware, Director of Marketing with Hemisphere GNSS. "The features and specifications of this antenna is another example of the innovation and incredible value that Hemisphere is known for."

Atlas GNSS Global Correction Service

Atlas is a flexible, scalable, and industry-leading GNSS-based global L-band correction service providing robust performance and correction data for GPS, GLONASS, and BeiDou, at market-leading prices. Atlas delivers correction signals via L-band satellites to provide accuracies ranging from sub-meter to sub-decimeter levels, and leverages approximately 200 reference stations worldwide, providing coverage to virtually the entire globe.

Atlas is available on all Hemisphere Atlas-capable single and multi-frequency, multi-GNSS hardware, and complements third-party GNSS receivers by using Atlas corrections with Hemisphere's innovative BaseLink™ and SmartLink™ capabilities. Using multi-frequency hardware, Atlas corrects more satellites than ever before, to create faster convergence times, and is robust and reliable in canopy or foliage covered areas. Atlas Basic provides users of both single and multi-frequency Atlas-capable hardware the ability to achieve better than SBAS performance anywhere in the world where the Atlas correction service is available. Atlas Basic is a ground-breaking new feature that offers a proven accuracy of 30 cm (pass-to-pass 95%)* to 50 cm (absolute 95%)* and instantaneous sub-meter accuracy.

| <u>Service Level</u> | <u>Position Accuracy</u> |
|-----------------------------|---------------------------------|
| Atlas Basic | 50 cm 95% (30 cm RMS)* |
| H30 | 30 cm 95% (15 cm RMS)* |
| H10 | 8 cm 95% (4 cm RMS)* |

* Based on a 15-minute convergence time. Also depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.

Visit the Hemisphere booth ([#4228](#)) at [AUVSI XPONENTIAL 2018](#) until May 3rd, 2018 in Denver, CO, USA to see the [HA32 UAV GNSS antenna](#) in person.

About Hemisphere GNSS

Hemisphere GNSS is an innovative technology company that designs and manufactures high-precision positioning products and services for use in OEM/ODM, marine, machine control & guidance, agriculture, and L-band correction service markets. Hemisphere holds numerous patents and other intellectual property and sells globally with several leading product and technology brands including [Athena™](#), [Atlas®](#), [Crescent®](#), [Eclipse™](#), and Vector™ for high-precision applications. Hemisphere is based in Scottsdale, AZ, USA, with offices located around the globe, and is part of Beijing UniStrong Science & Technology Co., Ltd.

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