Hemisphere GNSS Announces Rugged Atlas-capable UAV GNSS Antenna

Hemisphere GNSS has announced the 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 2.0dB and up to 30dB gain. 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 (40g) and compact form-factor (40mm x 75mm) design of the antenna makes it resistant to wind when installed on UAVs and offers easy integration with a single SMA RF connector.

Atlas GNSS Global Correction Service

Atlas delivers correction signals via L-band satellites to provide accuracies ranging from sub-metre to sub-decimetre 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 new feature that offers a proven accuracy of 30cm (pass-to-pass 95%) to 50cm (absolute 95%) and instantaneous sub-metre accuracy.