

Septentrio Names New Dealer for UAV Market



Septentrio has appointed Unmanned Systems Source, USA, as an authorised dealer for GNSS positioning products in the UAV market. The two companies will showcase the Septentrio drone solutions in Booth 320 at the Commercial UAV Expo in Las Vegas, from 5-7 October 2015.

Earlier this year, Septentrio introduced its [AsteRx-m UAS](#) high-accuracy GNSS receivers and GeoTagZ software suite designed specifically for drone applications. The AsteRx-m UAS board provides consistent, robust centimetre-level positioning even under extreme challenging interference and multipath conditions. The compact, lightweight module also has a modest power consumption - less than 600mW with GPS and 700mW with both GPS and GLONASS satellite measurements, extending range and increasing payload. In

addition, the AsteRx-m UAS enables users to accurately synchronise a camera shutter to GNSS time.

High-accuracy Position Tags

Septentrio's companion GeoTagZ software suite works together with the UAV's camera and image processing solution to provide high-accuracy position tags of images without the need for a real-time data link. GeoTagZ is available as a library of software to integrate easily into the UAS image processing tool chain. The AsteRx-m UAS and GeoTagZ can be combined with the Altus NR2 base station to provide real-time corrections or reference data for GeoTagZ.

The AsteRx-m UAS and GeoTagZ solution provides seamless integration into UAV onboard systems. The module plugs directly into common autopilots. Power comes directly from a micro USB, a 9-30V external power supply or the 5V vehicle power bus (e.g., Pixhawk). GeoTagZ is designed to be integrated with Septentrio's [Altus NR2](#) base station for high-accuracy calculations.