

Septentrio Launches AsteRx-m2 OEM GNSS Receiver



The AsteRx-m2 and AsteRx-m2 UAS OEM boards have been launched by Septentrio, a leading manufacturer of accurate and reliable GNSS solutions. These two new OEM boards which bring the latest in GNSS positioning to the market with new interference mitigation technology all on ultra-low-power will be showcased at AUVSI's Xponential 2017 in Dallas, Texas, USA.

The credit-card sized AsteRx-m2 and the AsteRx-m2 UAS offer all-in-view multi-frequency, multi-constellation tracking and centimetre-level RTK position accuracy for the lowest power of any comparable receiver. Additionally, the AsteRx-m2 and the AsteRx-m2 UAS can receive TerraStar satellite-based correction signals for PPP positioning.

Mitigation technology

The AsteRx-m2 and the AsteRx-m2 UAS feature Septentrio's AIM+ interference mitigation system: according to Septentrio the most advanced on-board interference mitigation technology on the market. It can suppress the widest variety of interferers, from simple continuous narrowband signals to the most complex wideband and pulsed jammers. The increasing levels of radio frequency pollution coupled with the intrinsic danger of self-interference in compact systems such as UAS, makes interference mitigation a vital element in any UAS GNSS system.

The AsteRx-m2 UAS is designed specifically for unmanned systems. It brings plug-and-play compatibility for autopilot software such as ArduPilot and Pixhawk and event markers can accurately synchronise a camera shutter with GNSS time. The board can be directly powered from the vehicle power bus via its wide-range power input. The AsteRx-m2 UAS works seamlessly with GeoTagZ software and its SDK library for RPK (ReProcessed Kinematic) offline processing to provide RTK accuracy without the need for ground control points or a real-time datalink.

The market demands increasingly accurate and reliable GNSS positioning systems for inspection, mapping and aerial survey, stated Gustavo Lopez, product manager at Septentrio. He continued saying that Septentrio's answer is the AsteRx-m2 and the AsteRx-m2 UAS: offering multi-frequency and multi-constellation tracking as well as robust interference protection all for the lowest power on the market.