

Jamming Robustness Features in Septentrio's AsteRx-m2 and AsteRx-m2 UAS

Septentrio has launched the AsteRx-m2 and AsteRx-m2 UAS OEM boards. These two OEM boards, which bring the latest in GNSS positioning to the market with interference mitigation technology all on ultra-low-power, will be showcased at AUUSI'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.

The AsteRx-m2 and the AsteRx-m2 UAS feature Septentrio's AIM+ interference mitigation system, developed to 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.

Made for Unmanned Systems

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.

Septentrio is located at stand 749 of Xponential 2017.