Septentrio launches the AsteRx-i for IMU-enhanced GNSS positioning and attitude

Leuven, Belgium – 23 April 2018 – GNSS receiver manufacturer Septentrio today announced the launch of the next generation AsteRx-i at IEEE/ION Position Location and Navigation Symposium in Monterey, US. The AsteRx-i combines Septentrio’s latest compact, multi-frequency multi-constellation GNSS engine with an external industrial grade MEMS based IMU. It can deliver accurate and reliable GNSS/IMU integrated positioning to the cm-level as well as full 3D attitude at high update rates and low latency.

Key benefits for users:
- IMU-enhanced GNSS positioning with full attitude: heading pitch and roll
- Quad-constellation, multi-frequency, all-in-view RTK receiver
- AIM+ interference monitoring and mitigation system
- High-update rate, low-latency positioning and attitude

Designed around demanding requirements for size, weight and power consumption, the AsteRx-i is ideal for optical inspection and photogrammetry. Accompanied by a UAS-tailored carrier board, the AsteRx-i integrates seamlessly into light UAVs. The versatility of design and range of connection interfaces extend the AsteRx-i applicability to automation and robotics and as well as logistics.

The AsteRx-i includes Septentrio’s GNSS+ suite of positioning algorithms to convert difficult environments into good positioning: LOCK+ technology to maintain tracking during heavy vibration, APME+ to combat multipath and IONO+ technology to ensure continued position accuracy during periods of elevated ionospheric activity. It also features AIM+ interference mitigation and monitoring system which can suppress the widest variety of interferers, from simple continuous narrowband signals to the most complex wideband and pulsed jammers.

“Complementing our GNSS portfolio with an INS offering is a natural evolution of our product range. At Septentrio, we design our GNSS solutions with a focus on reliability and availability. Smart integration of inertial sensors builds on these strengths to make affordable high-precision positioning and orientation solutions possible for ever more demanding applications,” said Francesca Clemente Product Manager at Septentrio.

About Septentrio:

Septentrio designs, manufactures and sells high-precision, multi-frequency, multi-constellation GPS/GNSS equipment for use in demanding applications. Septentrio products are used in a wide variety of industries including marine, construction, agriculture, survey and mapping, geographic information systems (GIS) and unmanned aerial vehicles (UAVs). Septentrio receivers deliver consistently accurate and precise GNSS positioning scalable to centimetre-level and designed to perform solidly in the most challenging environments. Septentrio receivers are available as OEM boards, housed receivers and smart antennas.

Septentrio is committed to providing products that are easy to use and straightforward to integrate into existing setups and workflows. A team of experienced application engineers in Europe, North America and
Asia are on hand to assist users at every step of their integration journey and for the lifetime of the product afterwards. Septentrio is headquartered in Leuven, Belgium and has offices in Torrance, California, Shanghai and Tokyo as well as partners around the world. To learn more about Septentrio and its products, visit: www.septentrio.com.

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