PRESS RELEASE

Septentrio introduces a new GNSS/INS system in a rugged housing

Septentrio expands their GNSS/INS portfolio with AsteRx SBi. This ruggedized receiver fuses high-accuracy GPS/GNSS with a high-performance inertial sensor to provide reliable positioning and 3D orientation, ideal for machine control and logistic applications.

September 11, 2019

Leuven, Belgium - Septentrio, a leading global supplier of high-accuracy positioning technology for demanding applications, unveils today AsteRx SBi, a new housed GNSS/INS receiver. Within its rugged, waterproof enclosure a high-performance GPS/GNSS is coupled with an industrial-grade inertial sensor to provide high-accuracy, reliable positioning and 3D orientation (heading, pitch, roll).

Offering the flexibility of either single or dual antenna, AsteRx SBi is designed for quick and easy integration into any machine monitoring or control system. AsteRx SBi packs performance and durability into a single, compact box. Reliable location and 3D orientation data is streamed with a high update rate and constant low latency. “AsteRx SBi was designed with ease of integration and reliability in mind. Its compact, ruggedized housing is optimized for easy clamping to any machinery,” said Danilo Sabbatini, Product Manager at Septentrio. “It has all the features and tools needed for straightforward integration into machines or large robotic systems.”

Septentrio reliable centimeter-level positioning is based on true multi-frequency, multi-constellation GNSS (GPS, GLONASS, Galileo, BeiDou, QZSS) technology. AsteRx SBi combines GPS/GNSS and an industry-grade IMU (Inertial Measurement Unit) to deliver precise positioning together with 3D attitude. Septentrio’s unique GNSS – IMU integration algorithm enables continuous positioning in environments of low satellite visibility where short GNSS outages are possible. This is referred to as coasting or dead reckoning and can happen near high structures, under bridges or under thick foliage. This makes AsteRx SBi a robust positioning solution for machinery operating in environments challenging for GNSS, such as in container yards, urban canyons or near cliffs.

AsteRx SBi comes with built-in industry leading Advanced Interference Mitigation (AIM+) technology. In busy urban environments electromagnetic waves can interfere with GPS and GNSS signals. AIM+ offers protection against such interference resulting in faster set-up times and robust continuous operation. A built-in power spectrum plot allows users to analyze interference, helping locate its source and mitigating it.

For more info, visit the AsteRx SBi product page - High resolution images
Come and visit us at: ION GNSS+ 16-20 Sept. 2019 Miami, Florida, US
INTERGEO Hall 1, D1.040 17-19 Sept. 2019 Stuttgart, Germany

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About Septentrio
Septentrio provides high-precision, multi-frequency, multi-constellation GPS/GNSS positioning technology for use in demanding applications. Reliable centimeter-level positioning enables machine autonomy and ensures operational continuity, efficiency and safety. Septentrio provides positioning solutions for professional applications in such industries as autonomous vehicles, robotics, construction, mapping, marine, logistics and unmanned aerial vehicles (UAVs).

Septentrio is headquartered in Leuven, Belgium and has a global presence with offices in Los Angeles, Shanghai, Yokohama and many other distributors world-wide. To learn more about Septentrio and its products, visit septentrio.com.

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