

News Release

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Septentrio launches inertially aided GNSS solutions

Leuven, Belgium – Today, Septentrio launched AsteRxi™, its first multi-sensor GNSS receiver. AsteRxi™ processes high-quality GNSS measurements with IMU-measurements to generate an enhanced integrated position.

“Traditionally, professional receivers have been integrated with expensive fiber-optic gyroscopes or similar inertial sensors, making solutions prohibitively expensive for many applications,” says Peter Grogard, Managing Director of Septentrio. “With the integration of the high-quality MEMS Inertial Measurement Units (IMU’s) such as the MTi™ from Xsens with the high-precision AsteRx™ receivers, the benefits of integrated inertial/GNSS systems become available for a host of new industrial applications.”

Besides tracking GPS and GLONASS satellites, resulting in improved availability, the integration with IMU measurements allows AsteRxi™ to deliver precise position data in places where conventional GNSS receivers can’t. Additionally the integrated solution provides position data at up to 50Hz as well as attitude measurements, making it the ideal product for high dynamic applications, delivering robust performance under obstructions, continuous operation under tree foliage, superior accuracy in urban canyons and much higher multipath rejection. To optimally address technical and economical requirements of a variety of applications, AsteRxi™ is designed with a versatile interface that facilitates integration by Septentrio of different IMU-sensors depending on the application requirements.

AsteRxi is delivered standard with Xsens IMU’s.

Xsens Technologies B.V. (www.xsens.com) offers small and highly accurate 3D motion tracking products based on miniature MEMS inertial sensor (IMU) technology. Products include miniature Attitude and Heading Reference Systems, motion capture solutions and motion tracker kits.

Septentrio Satellite Navigation NV designs, manufactures, markets and supports high-end OEM GNSS receivers for demanding professional navigation, positioning and timing applications. Septentrio has an international team of experts in all areas of satellite navigation receiver design and applications. For more information about Septentrio, please visit our website at www.septentrio.com.