



Septentrio Provides Low-Power Embedded GNSS for Xeos Technologies Autonomous Reference Receiver

TORRANCE, Calif. – Dec. 13, 2016 – Septentrio’s low-power AsteRx-m OEM GNSS board has been selected by Xeos Technologies for use in their new RESOLUTE reference receivers. Designed for high-precision monitoring in low-power applications, the RESOLUTE systems are aimed at structural monitoring and geodetic research in remote locations.

Smaller than a standard credit card, the AsteRx-m board provides centimeter-level dual-frequency L1/L2 GNSS positioning while consuming less than 0.6 W. It incorporates Septentrio’s proprietary tracking and positioning algorithms, providing high accuracy and robust performance in difficult environments.

The Xeos RESOLUTE GNSS receiver is designed for applications such as critical infrastructure monitoring, subsidence monitoring and GPS geodesy in extreme polar environments. The small, lightweight and low-power monitoring station is suitable for solar-powered remote autonomous installations. In addition to the Septentrio AsteRx-m GNSS board, the RESOLUTE system features dual SD card storage of GNSS data and multiple telemetry options such as Iridium, cellular, Wi-Fi and wireless mesh networks for monitoring, control and data transmission. The Xeos RESOLUTE also features multiple interfaces such as USB, RS-232, RS-485, CANBUS and SDI-12.

“Field tests of the prototype RESOLUTE stations have demonstrated reliable RTK centimeter-level performance for remote deformation monitoring,” said Paul Passmore, Xeos Technologies. “We look forward to presenting our test results at the American Geophysical Union Fall Meeting in San Francisco this week.”

“Xeos Technologies’ RESOLUTE autonomous polar monitoring system is an ideal application for the AsteRx-m technology,” said Neil Vancans, vice president of Septentrio Americas. “The compact AsteRx-m delivers reliable centimeter-level L1/L2 RTK at under 0.6 W in extreme climatic conditions.”

“Building upon our polar Iridium telemetry products, we are teaming with Septentrio to offer a new line of high-performance, low-power GNSS products for remote applications” said Derek Inglis, president of Xeos Technologies.

About Xeos Technologies:



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Founded in 2004 and based in Dartmouth, Nova Scotia, Xeos Technologies designs and markets a range of GPS tracking, monitoring, alarm and surveillance products for infrastructure monitoring, oceanographic, remote monitoring and security applications. An Iridium equipment developer, Xeos has pushed the boundaries of designing monitoring equipment for remote, autonomous and extreme environments.

About Septentrio:

Septentrio designs, manufactures and sells high-precision multi-frequency multi-constellation GPS/GNSS equipment, which is used in demanding applications in a variety of industries such as marine, construction, agriculture, survey and mapping, geographic information systems (GIS), and unmanned aerial vehicles (UAVs) as well as other industries. Septentrio receivers deliver consistently accurate GNSS positions scalable to centimeter-level, and perform solidly even under heavy scintillation or jamming. Septentrio receivers are available as OEM boards, housed receivers and smart antennas.

Septentrio offers in-depth application and integration support to make its customers win in their markets. Septentrio is headquartered in Leuven, Belgium, and has offices in Torrance, Calif., and Hong Kong, and partners throughout the world. To learn more about Septentrio and its products, visit: www.septentrio.com.

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