PolaRx5 GNSS Reference Station Receivers Shipped to UNAVCO

Septentrio, a leading provider of GNSS receivers, has announced the start of shipments to UNAVCO of its all-new multi-frequency PolaRx5 reference receivers. This follows the 2015 announcement by UNAVCO that Septentrio had been selected as the preferred vendor of next-generation GNSS reference station products for the Geodesy Advancing Geosciences EarthScope (GAGE) facility.

The PolaRx5 incorporates Septentrio's most advanced multi-frequency GNSS engine, with support for all major satellite signals including GPS, GLONASS, Galileo and BeiDou, as well as the regional QZSS and IRNSS satellite systems. As noted in the UNAVCO GNSS Receiver Preferred Vendor RFP Evaluation Report, Septentrio consistently ranks highest in many areas of measurement quality and interference mitigation of the instruments tested. Moreover, the PolaRx5 offers the lowest power consumption of multi-constellation, multi-frequency GNSS reference receivers, operating on less than 2 Watts when receiving GPS and GLONASS satellite signals.

Meghan Miller, president at UNAVCO, said he is excited about the selection of the PolaRx5 for enhancement of the EarthScope Plate Boundary Observatory, the international standard for geodetic networks. They will work with Septentrio to modernise UNAVCO GPS networks, and explore the science innovation and broader applications that are possible in the rapidly evolving GNSS era.

Research and education

UNAVCO is a non-profit university-governed consortium that facilitates geosciences research and education using geodesy. UNAVCO operates the GAGE Facility for the National Science Foundation with additional core support from NASA. The GAGE Facility includes more than 2,000 continuously operating GPS/GNSS reference stations around the world. UNAVCO-supported networks include EarthScope's Plate Boundary Observatory (PBO), the Continuously Operating Caribbean GPS Observational Network (COCONet), the Trans-Boundary Land and Atmosphere Long-Term Observational and Collaboration Network (TLALOCNet) and the Polar Earth Observational Network (POLENet).

Septentrio's close cooperation with UNAVCO continues a tradition of partnering with leading scientific institutions and agencies that require high-performance GNSS technology in challenging environments. Septentrio partners include the European Space Agency (ESA) and the European GNSS Agency (GSA).

These deliveries mark a huge step in the modernization program for UNAVCO and UNAVCO partner networks around the globe, said Neil Vancans, vice president of Septentrio Americas. The use of new satellite technology will be the foundation for greater understanding of our planet. The entire Septentrio team is proud to be a part of this pivotal programme.

https://www.gim-international.com/content/news/polarx5-gnss-reference-station-receivers-shipped-to-unavco