



Septentrio announces seismic monitoring and advanced CORS features on PolaRx5 product line.

Leuven, Belgium and Torrance, California – 8 December – Septentrio, a leading provider of accurate and reliable GNSS receivers, announces today the release of 5.1.0 firmware for the PolaRx5 product line of GNSS reference receivers. The 5.1.0 firmware brings new features for file management, usability, security and seismic monitoring. Septentrio's PolaRx5 product line of GNSS reference receivers includes the PolaRx5 for CORS and network operations, the PolaRx5TR for time and frequency transfer and the PolaRx5S for space weather applications.

Improvements in Precise Point Positioning (PPP) have opened the door on seismic monitoring using GNSS technology. As well as allowing precise measurement of long-term slow surface displacement, PolaRx5 now allows real-time recording of the high-frequency vibrations typically accompanying earthquakes. Firmware 5.1.0 introduces the support for on-board PPP and dynamic response tuned for seismic applications.

The 5.1.0 firmware release brings greater logging efficiency to the PolaRx5 users. Storage integrity is crucial for many applications. Retransmitting data can be an expensive business, especially when using Iridium telemetry. To improve archival functionality, Septentrio has developed a storage integrity feature to retransmit only the data which has been lost in the initial transmission. This avoids the common and unnecessary overhead of retransmitting complete files.

Preventing unauthorised access is a crucial aspect of cyber security. PolaRx5 product line is now equipped with firewall and IP filtering, SFTP and ssh keys. This complements and strengthens the user management and access level protection of the PolaRx5 product line.

Various independent tests have shown PolaRx5 consistently ranks highest among GNSS receivers in many areas of measurement quality, including lowest measurement noise and fewest number of cycle slips, and this at the lowest power consumption on the market. The PolaRx5 products offer robust and high-quality



Europe

Greenhill Campus
Interleuvenlaan 15i
3001 Leuven, Belgium
+32 16 30 08 00

Americas

Suite 200
23848 Hawthorne Blvd
Torrance, CA 90505, USA
+1 310 541 8139

Asia-Pacific

Level 901, The Lee Gardens
33 Hysan Avenue
Causeway Bay, Hong Kong
+852 3959 8680



GNSS tracking of GPS, GLONASS, Galileo and BeiDou as well as regional satellite systems including QZSS and IRNSS.

Some of those who have recently deployed the PolaRx5 include the Oregon Department of Transport (DOT), UNAVCO, the Jet Propulsion Laboratory (JPL) and the SAPOS CORS network in Germany.

“The 5.1.0 PolaRx5 firmware continues Septentrio’s commitment to its customers.” stated Francesca Clemente, PolaRx Product Manager. She continued: “The new features of the 5.1.0 firmware complement existing standard features of the PolaRx5 GNSS receivers such as Advanced Interference Mitigation technology (AIM+) and the web UI offering full user control and status to make PolaRx5 the most complete GNSS reference station on the market today.”

This firmware is now available on Septentrio’s website and will be showcased at the American Geophysical Union (AGU) Fall Meeting from Monday, 12 December.

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 centimetre-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, California, and Hong Kong, and partners around the world. To learn more about Septentrio and its products, visit: www.septentrio.com.

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Press Contacts:



Europe
Greenhill Campus
Interleuvenlaan 15i
3001 Leuven, Belgium
+32 16 30 08 00

Americas
Suite 200
23848 Hawthorne Blvd
Torrance, CA 90505, USA
+1 310 541 8139

Asia-Pacific
Level 901, The Lee Gardens
33 Hysan Avenue
Causeway Bay, Hong Kong
+852 3959 8680



Neil Vancans

Septentrio Americas

+1 310 541-8139

neil.vancans@septentrio.com

Martin Mc Cormack

Septentrio Europe

+32 16 30 08 00

martin.mccormack@septentrio.com

Max De Proft

Septentrio Asia-Pacific

+852 3959 8680

max.deproft@septentrio.com



Europe

Greenhill Campus
Interleuvenlaan 15i
3001 Leuven, Belgium
+32 16 30 08 00

Americas

Suite 200
23848 Hawthorne Blvd
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Asia-Pacific

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+852 3959 8680