

AsteRx3 OEM GNSS Receiver



Septentrio announces AsteRx3™, a compact multi-frequency GPS/GLONASS/GALILEO and COMPASS-ready receiver. AsteRx3™ is specially designed for integration in demanding precision positioning, navigation and automation applications such as land and maritime survey, machine control, UAV payloads, and many others, and provides excellent preparation for reaping the benefits of all modernized GNSS signals.

Providing simultaneous access to legacy and modernised GPS, GLONASS and GALILEO signals on L1, L2, L5, E5a, E5b and E5 AltBOC, AsteRx3™ is a most compact and future-proof OEM receiver.

A range of innovative features, GNSS+, is introduced. ATrack+, Septentrio's patented Galileo AltBOC tracking, provides low noise tracking and multi-path resistance for Galileo's most advanced signal. LOCK+ tracking guarantees exceptional tracking stability under high vibration conditions. The advanced multipath mitigation algorithm APME has been extended for use with the modernised signals, and provides the best multipath mitigation, especially for the predominant and harmful short-delay multipath. AIM+, Septentrio's Advanced Interference Mitigation technology, protects receivers against in-band interference, and allows users to identify the interference in a "spectrum plot" view. These innovative tracking algorithms are complemented with RTK+ for extended RTK baselines over 50 km as well as faster initialisation.

"With the evolution of GNSS systems, more and more users demand the possibility to prepare for the benefits these new signals and systems bring," said Peter Grogard, Managing Director of Septentrio.

"AsteRx3™ exploits the capabilities of these signals with our latest ASIC technology. As AsteRx3™ is plug-compatible with AsteRx2 and AsteRx2e, the AsteRx family is ideal for system integrators to build solutions which perform optimally with signals available today, which can be migrated to new signals and systems seamlessly tomorrow."

Septentrio will start shipping AsteRx3™ in the first quarter of 2010.

<https://www.hydro-international.com/content/article/asterx3-oem-gnss-receiver-4>
