Military & Defense

Assured Positioning, Navigation & Timing

Navigation superiority starts with us

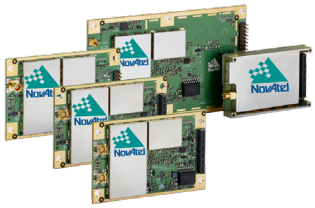
Hexagon | NovAtel is a leader in assured positioning with over 30 years of experience producing innovative technology to protect your people, assets and infrastructure. Not only are our products used for successful military operations worldwide, they are also used as the source-of-truth benchmark in field-testing.

Assured PNT

NovAtel's OEM Global Navigation Satellite Systems (GNSS) technology is inside many of the most advanced high-precision and robust positioning platforms, designed by a team of top hardware, software, mechanical and geomatics engineers. Our technology provides proven assured positioning, navigation and timing (APNT) in GNSS-contested conditions. Our components and commercial off-the-shelf items are engineered to ensure continuous positioning, and to provide situational awareness by detecting, locating, and characterizing interference sources, allowing operations in the most hostile RF environments.

OEM7 receivers

NovAtel's multi-constellation, multi-frequency receivers provide unsurpassed signal availability in challenging environments.



Our receivers are easy to integrate and available in multiple configurations to lower SWaP and flexibly fit a variety of platforms.

SPAN technology

SPAN technology from NovAtel deeply couples a GNSS receiver with an Inertial Measurement Unit (IMU) and other sensors for reliable, continuously available 3D position, velocity and attitude — even during periods of satellite signal unavailability.

GAJT

GPS Anti-Jam Technology can protect every single platform in your force.

GAJT mitigates against jammers to ensure the GNSS signals required for calculating position and time remain available. GAJT is a commercial off-the-shelf product, which ensures short order lead times and quick deployment. As well as protection, situational awareness messages are provided to indicate the presence of jammers.

GAJT-710

Protection for high-value land vehicles, marine vessels and fixed installations. The GAJT-710 is quick and easy to mount and works with civil and military receivers, including M-Code. The battle-tested GAJT-710 protects L1 and L2 signals from up to six simultaneous jammers per band (12 total). It includes direction-finding capabilities to enhance your situational awareness and a silent mode feature to reduce thermal signature.

GAJT-310

The GAJT-310 is our lowest size, weight and power (SWaP) design ideal for small platforms, including drones. Unlike other low SWaP solutions that only protect L1, GAJT-310 protects both L1 and L2 bands from two simultaneous jammers per band (four total) and enables superior situational awareness with jammer direction-finding capability. It is commercially exportable, non-ITAR technology and available as an integrated enclosure or federated (separate anti-jam electronics and CRPA) for flexible and affordable integration.

GAJT-710

NEW GAJT-310

GAJT-410

GAJT-410

The GAJT-410 protects L1 and L2 signals from up to three simultaneous jammers per band (six total) in a lower SWaP design for both land and marine platforms.

GAJT-410 connects to a Power Injector Data Converter (PIDC) that provides clean power and data (jammer status and direction-finding information) over the same RF cable that delivers the protected GPS signal back to the receiver – saving integrators cabling and platform modification costs.

GRIT

GNSS Resilience and Integrity Technology (GRIT) is a firmware suite that expands situational awareness and provides interference mitigation tools across applications and environments.

GNSS spoofing detection

Enable spoofing detection for a comprehensive understanding of your RF environment to identify when your APNT are at risk.

GNSS Interference Toolkit (ITK)

A resilient signal requires protection. ITK identifies and characterizes interference frequencies in your area, protecting you from unintentional and malicious interference.

Time-tagged digitized samples

Time-tagged snapshots of analog to digital data samples allow you to characterize the RF environment and develop your own interference location algorithms.

About Hexagon | NovAtel

Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

NovAtel, part of Hexagon, is a global technology leader, pioneering end-to-end solutions for assured positioning for land, sea, and air. NovAtel designs, manufactures and sells high precision positioning technology developed for efficient and rapid integration. Its solutions are empowering intelligent positioning ecosystems in vital industries that depend on the ability to tackle the most complex challenges in the most demanding environments. Learn more at novatel.com.

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